(V) PIONEER'

Service Manual

DEH-P705/UC



ORDER NO. CRT1553

MULTI-CD CONTROL HIGH POWER CD PLAYER WITH FM/AM TUNER

DEH-P705 ... DEH-P605 ... DEH-P703 ES

MULTI-CD CONTROL HIGH POWER CD PLAYER WITH RDS TUNER

DEH-P705RDS

EW,XIB/EW

● See the service manual DEH-M980(CRT1450) for the CD mechanism description and circuit description.

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CHAPTER 1

CD Player Service Precautions

- For pickup unit(CGY1026) handling, please refer to "Disassembly" (Fig. 10). During replacement, handling precautions shall be taken to prevent an electrostatic discharge (protection by a short pin).
- During disassembly, be sure to turn the power off since an internal IC might be destroyed when a connector is plugged or unplugged.

SAFETY INFORMATION (UC MODEL)

CAUTION

This service manual is intended for qualified service technicians; it is not meant for the casual do-it-yourselfer. Qualified technicians have the necessary test equipment and tools, and have been trained to properly and safely repair complex products such as those covered by this manual.

Improperly performed repairs can adversely affect the safety and reliability of the product and may void the warranty. If you are not qualified to perform the repair of this product properly and safely; you should not risk trying to do so and refer the repair to a qualified service technician.

WARNING

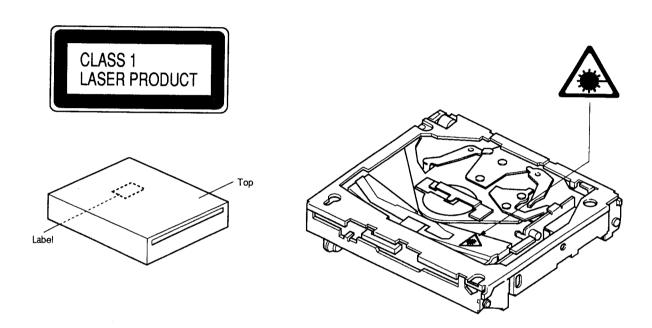
Lead in solder used in this product is listed by the California Health and Welfare agency as a known reproductive toxicant which may cause birth defects or other reproductive harm (California Health & Safety Code, Section 25249.5). When servicing or handling circuit boards and other components which contain lead in solder, avoid unprotected skin contact with the solder. Also, when soldering do not inhale any smoke or fumes produced.

SAFETY INFORMATION (EW MODEL)

- 1. Safety Precautions for those who Service this Unit.
- Follow the adjustment steps (see pages 1-29 through 1-40)in the service manual when servicing this unit. When
 checking or adjusting the emitting power of the laser diode exercise caution in order to get safe, reliable results.

Caution:

- 1. During repair or tests, minimum distance of 13cm from the focus lens must be kept.
- 2. During repair or tests, do not view laser beam for 10 seconds or longer.
- 2. A "CLASS 1 LASER PRODUCT" label is affixed to the rear of the player.
- 3. The triangular label is attached to the mechanism unit frame.



4. Specifications of Laser Diode

Specifications of laser radiation fields to which human access is possible during service.

Wavelength = 785 nanometers

Radiant power = 69.7 microwatts(Through a circular aperture stop having a diameter of 80 millimeters)

0.55 microwatts(Through a circular aperture stop having a diameter of 7 millimeters)

1. SPECIFICATIONS

●DEH-P705/UC,DEH-P605/UC

Specifications

General	
Power source1	4.4 V DC (10.8 — 15.6 V allowable)
Grounding system	Negative type
May current consumption	10.0 A
Dimensions (shassis)	178 (W) × 50 (H) × 155 (D) mm
Diffielisions (chassis)	$(7 \text{ (W)} \times 2 \text{ (H)} \times 6\text{-}1/8 \text{ (D) in.})$
(nose)	170 (W) × 48 (H) × 15 (D) mm
	$[6-3/4 \text{ (W)} \times 1-7/8 \text{ (H)} \times 5/8 \text{ (D) in.}]$
Weight	1.5 kg (3.3 lbs)
Amplifier	
Continuous power output is 14	W per channel min. Into 4 ontils,
both channels driven 50 to 15.0	W per channel min. into 4 ohms, 200 Hz with no more than 5% THD.
both channels driven 50 to 15.0	000 Hz with no more than 5% THD.
both channels driven 50 to 15,0	000 Hz with no more than 5% THD. 30 W × 4 (EIAJ)
both channels driven 50 to 15,0 Max. power output	000 Hz with no more than 5% THD.
both channels driven 50 to 15,4 Max. power output Load impedance Preout output level/	000 Hz with no more than 5% THD. 000 Hz with no more than 5% THD. 000
both channels driven 50 to 15,6 Max. power output Load impedance Pare out output level/ output impedance	000 Hz with no more than 5% THD. 000 Hz with no more than 5% THD. 000 Hz 000
both channels driven 50 to 15,6 Max. power output	000 Hz with no more than 5% THD. 000 Hz with no more than 5% THD. 000 Hz 000
both channels driven 50 to 15,6 Max. power output	000 Hz with no more than 5% THD. 000 Hz with no more than 5% THD. 000 Hz with 000 Hz
both channels driven 50 to 15,6 Max. power output	$000 \; ext{Hz} \; ext{with no more than 5\% THD.} \ 30 \; ext{W} imes 4 \; ext{(EIAJ)} \ 4\Omega \; ext{(4} - 8\Omega \; ext{allowable}) \ \tag{500 mV/1 k} \ \tag{200} \ \tag{12 dB (100 Hz)} \ \tag{12 dB (1 kHz)} \ \tag{12 dB (1 kHz)} \ \tag{12 dB (10 kHz)} \ \tag{12 dB (10 kHz)} \ \tag{12 dB (10 kHz)} \ \tag{13 kHz} \ \tag{14 dB (10 kHz)} \ \tag{15 dB (10 kHz)} \ 15 $
both channels driven 50 to 15,6 Max. power output	000 Hz with no more than 5% THD. 000 Hz with no more than 5% THD. 000 Hz 000

●DEH-P65/UC

Specifications

ĺ	Negative type 10.0 A 178 (W) × 50 (H) × 155 (D) mm [7 (W) × 2 (H) × 6-1/8 (D) in.] 170 (W) × 48 (H) × 15 (D) mm [6-3/4 (W) × 1-7/8 (H) × 5/8 (D) in.]
Weight	1.5 kg (3.3 lbs)
Amplifier Continuous power output is 14 W both channels driven 50 to 15,000 Max. power output	0 Hz with no more than 5% THD. $30 \text{ W} \times 4$ (EIAJ) 4Ω (4 — 8Ω allowable) $$ 500 mV/1 k Ω 12 dB (100 Hz) 12 dB (1 kHz) 12 dB (10 kHz)

CD player System
FM tuner Frequency range
AM tuner Frequency range

These specifications were determined and are presented in accordance with specification standards established by the Ad Hoc Committee of Car Stereo Manufacturers.

Specifications and the design are subject to possible modification without notice due to improvements.

U	•	Р	1	8	y	8	ſ

OP Picyol	
System	Compact disc audio system
Usable discs	Compict disc
Signal format	Sampling frequency: 41.1 kHz
	Number of quantization bits: 16 linear
Frequency characteristics.	5 — 20,000 Hz ±1 d B)
Signal-to-noise ratio	94 dB (1 kHz) (IHF-A network)
Dynamic range	90 dB(1 kHz)
Number of channels	2 (stereo)

FM tuner

FINI LUITOI	
Frequency range	87.9 — 107.9 M Hz
Usable sensitivity	11 dBf (1.0μV/75Ω, mono, S/N:30 d B)
50 dB quieting sens	itivity
Signal-to-noise ratio)70 dB (IHF-A netwo≠k)
Distortion	
Frequency response	930 — 15,000 Hz±3 d B)
Stereo separation	40 dB (at 65 dB† 1 kHz)
Selectivity	70 dB (2ACA) (±4)0 kHz)
Three-signal interm	odulation (desire signal level)
	50 dBf (two undesire signal level: 110 dBf)

Wisi faties	
Frequency range	530 — 1,110 k Hz
Usable sensitivity	18µV (25 dB) (S/N 20 dB)
Selectivity	50 dB (± 0 kHz)

These specifications were determined and are presented in accrdance with specification standards established by the Ad Hoc Committee of Car Stereo Manufacturers.

Specifications and the design are subject to possible modicati on without notice due to improvements.

●DEH-P703/ES

Specifications

General	
Power source	e)
Grounding system Negative type	e
Max. current consumption	Ă
Dimensions	
(DIN) (mounting size)	n
(nose)	n
(D) (mounting size)	n
(nose)	n
Weight	'n
	-
Amplifier	
Continuous power output is 14 W per channel min. into 4 ohms,	
both channels driven 50 to 15,000 Hz with no more than 5% THD	
Max. power output)
Continuous power output14 W x 4	4
(1% dist. at 1 kHz	z)
Load impedance)
Preout output level/	
output impedance	2
Tone controls (bass))
(middle))
(treble))
Loudness contour+10 dB (100 Hz), +6.5 dB (10 kHz))
(volume: -30 dB))

CD player
SystemCompact disc audio system
Usable discs
Number of quantization hits: 16: linear
Frequency characteristics. 5 - 20 000 Up (44 40)
Signal-to-noise ratio94 dB (1 kHz) (IEC-A network)
Dynamic range 90 dB (1 kHz) Number of channels 2 (stereo)
FM tuner
Frequency range
50 dB quieting sensitivity
Signal-to-noise ratio
Distortion
rrequency response
Stereo separation
Selectivity 70 dB (2ACA) (+400 kH-)
Infee-signal intermodulation (desire signal level)
50 dBf (two undesire signal level: 110 dBf)
ABI Augus
AM tuner
Frequency range
Usable sensitivity
Selectivity
50 dB (±9 kHz)
30 UB (I 10 KHZ)

Note

Specifications and the design are subject to possible modification without notice due to improvements.

●DEH-P705RDS/EW

Specifications

General
Power source 14.4 V DC (10.8 — 15.6 V allowable)
Grounding system Negative type
Max. current consumption
Dimensions (chassis)
(front face) 188 (W) × 58 (H) × 20 (D) mm
Weight
1.5 kg
Amplifier
Max. power output
Continuous power output
(DIN 45324, +B=14.4 V)
Load impedance
Preout output level/
_output impedance500 mV/1 kΩ
Tone controls (bass)
(middle) ±12 dB (1 kHz)
(treble)±12 dB (10 kHz)
Loudness contour+10 dB (100 Hz), +6.5 dB (10 kHz)
(volume: –30 dB)

CD player
System
Signal formatSampling frequency: 44.1 kHz Number of quantization hits: 16: linear
Frequency characteristics
Signal-to-noise ratio 94 dB (1 kHz) (IFC-A network)
Dynamic range
Number of channels
FM tuner
Frequency range
Usable sensitivity11 dBf (1.0μV/75Ω, mono, S/N: 30 dB)
50 db quieting sensitivity 16 dBf (1.7uV/750, mono)
Signal-to-noise ratio
Distortion
Frequency response
Stereo separation
MW tuner
Frequency range
Usable sensitivity
Selectivity
LW tuner
Frequency range
Usable sensitivity
Selectivity 50 dB (±9 kHz)

Note

Specifications and the design are subject to possible modification without notice due to improvements.

2. OPERATION AND CONNECTION

Precautions

CAUTION:USE OF CONTROL OR AD-JUSTMENT OR PERFOR-MANCE OF PROCEDURES OTHER THAN THOSE SPECI-FIED HEREIN MAY RESULT IN HAZARDOUS RADIATION

EXPOSURE.
CAUTION:THE USE OF OPTICAL INSTRUMENTS WITH THIS PRODUCT WILL INCREASE EYE HAZARD.

· Do not disassemble the unit.

In case of trouble

When the unit does not operate properly, contact your dealer or the nearest authorized PIONEER Service Station. In the United States please call 1-800-421-1404 for product information or your nearest service center or 1-800-228-7221 for information on parts.

Important

The serial number of this device is located on the bottom of the unit. For your own security and convenience, be sure to record this number on the enclosed warranty card.

Connecting the Units

- ~ This unit is for vehicles with a 12-volt battery and negative grounding. Before installing it in a recreational vehicle, truck, or bus, check the battery voltage.
- To avoid shorts in the electrical system, be sure to disconnect the battery

 cable before beginning installation.
- After completing installation and wiring, double check that there are no mistakes. Re-install any parts removed from the car during installation, then connect the battery negative terminal.
- Refer to the owner's manual for details on connecting the various cords of the power amp and other units, them make connections correctly.
- Secure the wiring with cable clamps or adhesive tape. To protect the wiring, wrap adhesive tape around them where
- they lie against metal parts.

 Route and secure all wiring so it cannot touch any moving parts, such as the gear shift, handbrake, and seat rails. Do not route wiring in places that get hot, such as near the heater outlet. If the insulation of the wiring melts or gets torn, there is a danger of the wiring short-circuiting to the vehicle body.

- · Don't pass the orange lead through a hole into the engine compartment to connect to the battery. This will damage the lead insulation and cause a very dangerous short.
- Do not shorten any leads. If you do, the protection circuit may fail to work when it should.
- Never feed power to other equipment by cutting the insulation of the power supply lead of the unit and tapping into the lead. The current capacity of the lead will be exceeded, causing over heating.
- When replacing fuses, be sure to use only fuses of the rating prescribed on the fuse holder.
- Since a unique BPTL circuit is employed, never wire so the speaker leads are directly grounded or the left and right speaker ⊝ leads are common.
- Speakers connected to this unit must be high-power type possessing maximum input of at least 30 W and impedance of 4 to 8 ohms. Connecting speakers with output and/or impedance values other than those noted here can damage the speakers.

- · When the power amp is being linked with this system, be sure not to connect the blue lead to the amp's power terminal. Likewise, when linking this system with the auto-antenna, do not connect to power terminal for the antenna. Such connection can make overcurrent cause malfunctions.
- When the unit is mounted in a vehicle whose ignition switch does not have the ACC (accessory) position as shown in Fig. 2, be sure to connect the red lead of the unit to the terminal controlled by the ignition switch ON/OFF position. If you do not, the vehicle battery may go flat when you leave your vehicle for several hours. (Fig. 1: ACC position/Fig. 2: No ACC position)

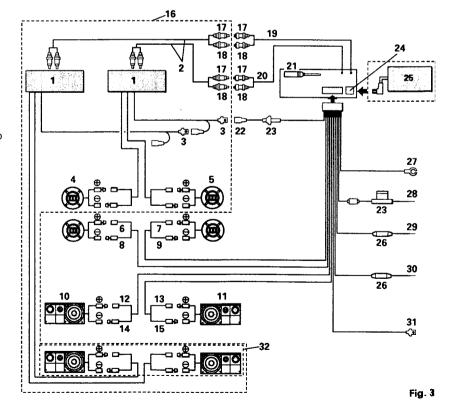








Fig. 2



Connection Diagram (Fig. 3)

- Power amp (sold separately) Connecting cords with RCA pin plugs (sold separately)
- Blue
- Front/left speaker Green
- Front/right speaker
- Green/black
- Gray Gray/black
- 10. Rear/left speaker 12. Green/red
- 11. Rear/right speaker 13. Gray/red

- Black/green 15. Black/gray
 Connected only when the optional amplifier is used. Nothing is connected when operating the built-in amplifier itself.
 White 18. Red
- 17. White 18. Red
 19. Rear out or sub woofer out can use either as rear out or sub woofer out. To switch output, see the section "Using the Sub-woofer" in the owner's manual. (DEH-P605 has rear out only and does not switch to sub woofer out.)
 20. Front out (DEH-P605 does not have this terminal.)
- 21. Antenna jack 22. Blue
- - To system control terminal of the power amp or Auto-antenna relay control terminal (Max. 300 mA 12 V DC).

- 23. Fuse holder
 24. Multi-play CD player terminal
 25. Multi-play CD player (sold separately)
 A maximum of 4 multi-play CD players can be connected. For connection details, see the owner's manual for the multi-play CD player.
- 26. Fuse resistor
- 27. Black (ground)
 To vehicle (metal) body.

- 28. Orange
 To terminal always supplied with power regardless of ignition switch position.
 29. Red
- To electric terminal controlled by ignition switch (12 V DC) ON/OFF.
- Yellow
 - To lighting switch terminal.
 Yellow/black
 Cellular Mute

- Cellular Mute
 If you use a cellular telephone, connect it via
 the Audio Mute lead on the cellular
 telephone. If not, keep the Audio Mute lead
 free of any connections.
- 32. Rear or sub woofer speaker (DEH-P605 has rear speaker only.)

Installation

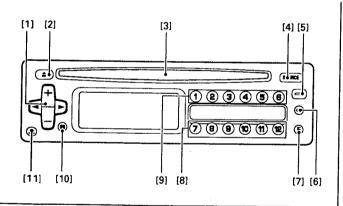
Note:

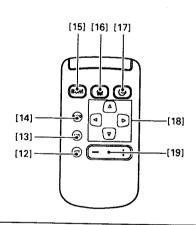
- Before finally installing the unit, connect the wiring temporarily and make sure it is all corrected up properly and the unit and the system work properly.
- Use only the parts included with the unit to ensure proper installation. The use of unauthorized parts can cause malfunctions.
- Consult with your nearest dealer if installation requires the drilling of holes or other modifications of the vehicle.
- Install the unit where it does not get in the driver's way and cannot injure the passenger if there is a sudden stop, like an emergency stop.
- If installation angle exceeds 30° from horizontal, the unit might not give its optimum performance. (Fig. 4)

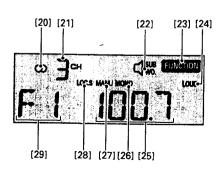


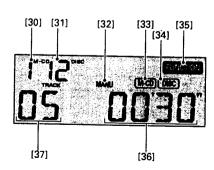
Fig. 4

 The semiconductor laser will be damaged if it overheats, so don't install the unit anywhere hot - for instance, near a heater outlet.



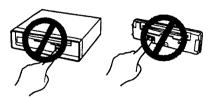






Precautions

- Do not hold the display tightly.
- Do not subject the front panel to excessive shock.
- Do not place the front panel in high temperatures or direct sunlight.
- Do not use benzene, paint thinner, or other volatile fluids to clean the front panel.
- Do not disassemble the front panel.
- Do not touch the terminals on the front panel and unit. (If the terminals are dirty, use a clean dry cloth to clean.)



Changing the Source

Parts Identification

[4] Source [8] ⑦ AUX ON/OFF ® "M-CD" display ON/OFF

Changing the Source

Each time the button [4] is pressed, the source will change in the following

Built-in CD player - Tuner - Multi-play CD player → Of

If a multi-CD player is not connected to this unit and the source is switched to the multi-CD player position, the display shows "M-CD". This display may be cleared by carrying out the following

While holding down ® of button [8], turn the car ignition key from OFF to ON.

If there is no disc in the built-in CD player, the source will not change to "built-in CD

player".

• If the multi-play CD player is not connected or if there is no magazine in the multi-play CD player, the source will not change to "multi-play CD player".

When connecting other audio equipment to the IP-BUS terminal of the main unit using the separately sold conversion cord. When listening to the audio equipment, carry out the following operations to switch to AUX mode.

1. While pressing @ of button [8], turn the

ignition key from OFF to ON.

2. Switching sources allows selection of AUX mode. Therefore, press button [4] to switch to AUX mode.

Built in CD player - Tuner - Multi-play
CD player - AUX - OFF

Adjusting the Audio

Parts Identification

[1] Volume/Audio adjustment

[10] Shift/SLA

[12] Attenuator

[22] Sub woofer [24] Loudness

Mode Selection

Each press of button [10] changes the mode as follows:

Volume adjustment (VOL) → Balance adjustment (FAD/BAL) → Pre-fader (P-FAD) Tone adjustment (BAS/MID/TRE) -Loudness adjustment (LOUD)

When you're adjusting fader, balance, Pre-fader, bass, middle or treble, the indicator will stop at the center setting. About 8 seconds after adjustment, the display returns to its previous state.

Volume Adjustment

Pressing the (+) side of button [1] increases the volume, while the (-) side decreases it. (Display shows "VOL 00" ~ "VOL 30".)

When driving your vehicle, be sure to keep the volume of the unit set low enough to allow you to hear sounds coming from outside.

Balance Adjustment

Press button [10] to select balance adjustment mode. ("FAD" appears on the display.) Adjust the fader using the (+) or (-) side of button [1]. To adjust the balance, press either the (◄) or (►) side of button [1].

Fader

This fader controls the balance between speakers 2 and speakers 3, which are shown in Figure5.

Press the (+) side of button [1] to raise the volume of speakers ② only; press the (-) side to raise the volume of speakers ③ only.

(Display shows "FAD F9" ~ "FAD R9".)

Please set "FAD 0" when using 2 speaker svstem.

Note:

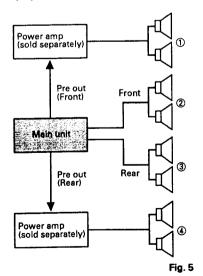
This unit has a fader that controls the balance between speakers 2 and 3, shown in Figure 5, using button [1], and a prefader that controls the balance between speakers ①, ②, ③ and speakers ④.

Pressing the (◄) side of button [1] shifts the balance to the left speaker, while the (>) side shifts it to the right speaker. (Display shows "BAL L9" ~ "BAL R9".)

Pre-Fader Adjustment

DEH-P605 does not have a pre out for the front, speaker ① cannot be connected. The pre-fader function of this unit controls the balance between speakers ①, ②, ③ and speaker ④, which are shown in Figure

Press button [10] to select pre-fader adjustment mode. Each press of the (+) side of button [1] gradually shifts the sound to speakers ①, ② and ③. Each press of the (-) side shifts the sound to speaker (4). (Display shows "P-FAD +9" ~ "P-FAD -9".)



Tone Adjustment

Press button [10] to select tone adjustment mode. ("BAS" appears.) Select the tone you wish to adjust using the (◄) or (►) side of button [1]. Each press of the (►) side changes the tone from BAS - MID - TRE, while each press of the (◄) side changes the tone from TRE → MID → BAS.

Bass Adjustment

Select the Bass mode. Pressing the (+) side of button [1] increases bass, while the (-) side decreases bass. (Display shows "BAS -6" ~ "BAS +6".)

Middle Adjustment

Select Middle adjustment mode. Pressing the (+) side of button [1] increases middle, while the (-) side decreases midde. (Display shows "MID -6" ~ "MID +6".)

Treble Adjustment

Select Treble adjustment mode. Pressing the (+) side of button [1] increases treble, while the (-) side decreases treble. (Display shows "TRE -6" ~ "TRE +6".)

Loudness Adjustment

This "loudness" function enhances both the high and low ranges of sound to give even more power to output even at low volume.

Press button [10] to select loudness adjustment mode. (The "LOUD" indicator appears on the display.)

Pressing the (►) side of button [1] turns the loudness function on (LOUD [24] lights up); pressing the (<) side turns it off.

Using the Sub-woofer

- DEH-P605 does not have this feature. This unit's pre-out output (Rear) terminals can also be used as sub-woofer output terminals. When using these terminals as sub-woofer output terminals, carry out the following operations.
- When the sub-woofer function is used, the Pre Fader function does not work. When button [10] in the previous item is pressed, the display moves to the next step in the sequence: VOL → FAD/BAL → 80 HZ (Sub-woofer) → BAS/MID/TRE → LOUD. (In other words, the Sub-woofer display replaces the Pre Fader display.)

Using the sub-woofer function

- 1. Press button [10] repeatedly to switch to the Pre Fader display ("P-FAD+9" -- "P-FAD-9").
- 2. When you hold down button [10] for at least 2 seconds, "SUB. WO" [22] lights up and the sub-woofer function comes on. The display switches to the sub-woofer display for about 8 seconds (displaying the frequency and output level "80HZ
- 3.To end the sub-woofer function, press button [10] repeatedly to switch to the sub-woofer display. Holding down button [10] for at least 2 seconds while the subwoofer is being displayed ends the subwoofer function

Frequency and output level adjustment

- 1. Press the button [10] repeatedly to switch to the sub-woofer display. (For about 8 seconds, the display shows the frequency and output level "80HZ 0").
- 2. While the sub-woofer display is shown, adjust the frequency and output level. Pressing the (◄) or (►) side of button [1] raises or lowers the frequency. Pressing the (+) or (-) side of button [1] raises or lowers the output level. The frequency can be set to 50 Hz, 80 Hz, or 120 Hz. The output level can be set within the range from -6 to 6.

Using the Source Level Adjuster

This is to adjust the difference in volume when the source is changed to built-in CD player, multi-play CD player, FM, or AM.

• Since the FM volume will be the standard

volume, it cannot be adjusted.

1.Check the FM volume.

- 2.Switch to the source whose volume is to be adjusted. Check the source's difference in volume with the FM volume.
- in volume with the FM volume.

 3.Set to SLA mode.

 Press button [10] for at least 2 seconds.

 (The current level of "V 0" will be displayed.)
- The SLA mode will be canceled after 8 seconds.
- 4. Adjust the difference in volume. Press the (+) or (-) sides of button [1].

 DEH-P605 does not have this feature. The volume will be reduced to about 1/10. Press button [12]. ("ATT 12" will blink.) To cancel, press the button again.

Using the Tuner

Parts Identification

- [1] Tuning Seek/Manual Local Seek Sensitivity
- [4] Source
- [5] Band [7] Function
- [8] Preset
- [8] ® Local mode
 - M Monaural
 BSM/Preset Scan
- [9] Preset
- [20] FM Stereo
- [21] Preset Number
- [23] Function
- [25] Frequency
- [26] FM Monaural
- [27] Manual
- [28] Local mode
- [29] Band

Electronic Tuner

Frequency allocation differs depending upon the area. This unit has been designed in accordance with the frequency allocations for North America. Use in other areas will result in improper reception.

Listening to the Radio

- 1.Set the source to "tuner" by pressing button [4].
- For details, refer to "Changing the Source*.
- 2. Select the band by pressing button [5]. Each time the button is pressed, the band will change in the following sequence: FM1 → FM2 → AM
- 3.Use seek tuning or manual tuning to tune to a radio station.
- 3-1. Set the tuning mode to "seek" or "manual" by pressing the (◄) and (►) sides of button [1] simultaneously. Repeat this operation to switch to the other tuning mode. (When the manual tuning mode is set, "MANU" [27] will be displayed.)

3-2. Tune by Press (◄) or (►) of button [1]. (When there is a stereo broadcast, 'O" [20] will be displayed.)

Seek Tuning:

When the button is pressed, stations whose signal strength is above a certain level will be tuned automatically.

Manual Tuning:

When the button is pressed, the frequency will change by one step up or down.

Switching functions

Button [8] has two functions. It switches FM monaural, BSM, etc. ON and OFF, and it also serves as the preset button for the FM 1 band. Press button [7] to switch the function as desired.

Function ON:

[23] lights up on the display. Button [7]

lights up in yellow.

Leave the function ON when using button [8] for FM monaural, BSM, etc.

Function OFF:

[23] on the display switches off. Button [7] lights up in red.

Leave the function OFF when using button [8] as the preset button for the FM 1 band.

Using the Preset Memory

The radio stations can be stored in memory under buttons 1 to 6 of [9].

- FM 1 bands can be stored in the memory of button [8] (7 to 12). Leave the function OFF when storing memory into button 181.
- 1. Tune in to the station to be stored in
- memory.

 2. Store the station in memory by pressing one of the buttons (1 to 6) for at least 2 seconds. When the [21] number stops blinking and there is a beep, the station will be stored in memory under the button pressed.
 - Up to 18 FM stations (12 stations on FM 1 and 6 stations on FM 2) and 6 AM stations can be stored in memory.

Preset Tuning

The radio stations stored in memory can be recalled by pressing the respective button 1 to 6 of [9]. The station stored under that button will be recalled. (The number of the button pressed will be displayed at [21].)

The FM1 band can recall broadcast stations stored in the memory of button Note:

Leave the Function ON when using button [8] in the following operations.

Using the Best Stations Memory (BSM)

The radio stations having a strong signal can be tuned automatically and stored in memory under buttons 1 to 6 [9]. Press ® of button [8] for at least 2 seconds. (The "BSM" will blink.) After "BSM" stops blinking, the stations will be stored in memory under buttons 1 to 6 of [9].

• The FM 1 band can also be stored in the

- memory of button [8].
- BSM can be canceled mid-operation by pressing @ of button [8].
- The stations will be stored under buttons 1 to 6 in the order of their signal strength. The strongest station will be stored under button 1, followed by stations with lower
- signal strengths.
 If there are fewer than 6 stations whose signal is strong, there will be spare memory.
- It will take almost 30 seconds for BSM to be completed.

Preset Scan Tuning

This recalls in sequence all the stations stored in memory under the buttons [9] for 8 seconds each. Press @ of button [8]. (The [21] number will blink.) To cancel, press the button again. After the desired station is tuned, cancel the preset scan tuning. The station will then continue to be received.

- Stations stored in memory under the buttons [9] but whose signal is weak will not be recalled.
- The FM 1 band can recall broadcasting stations stored in the memory of button

Local Seek Tuning

When the local mode is set, the seek tuning's sensitivity level will become high and only stations with a strong signal will be seek tuned. The local mode's seek sensitivity can be adjusted.

Setting the Local Mode

Press ® of button [8]. (The "LOC.S" [28] will light.) To cancel the local mode, press the button again.

Adjusting the Local Seek Sensitivity

There are 4 local seek sensitivity steps for FM and 2 steps for AM.

- LOC-4 is the highest seek tuning sensitivity level. Only the stations with a strong signal are tuned. LOC-3, LOC-2, and LOC-1 in descending order enables the tuning of stations with a respectively weaker signal.
- 1.Set to local seek sensitivity adjustment mode. Press ® of button [8] for at least 2 seconds. (The current sensitivity level "LOC-2" will be displayed.)
 - The local seek sensitivity adjustment mode will be canceled after about 5 seconds.
- 2.Adjust the sensitivity level by pressing (◄) or (►) of button [1].

FM Monaural Reception

If a stereo broadcast has a lot of noise, switching to the monaural reception mode will reduce the noise. Press @ of button [8]. "MONO" [26] will appear on the display.) To cancel, press the button again.

Playing Compact Discs

The unit can control the built-in CD player as well as a multi-play CD player sold separately.

Parts Identification

- [1] Track Number Search Fast Forward and Reverse
- [2] Eject
- [3] Disc Insertion Slot
- [4] Source
- [7] Function
- [8] Disc Number Search
- [8] 7 Switching display
 - ® ITS (Instant track selector)
 - Switching playback mode
 Scan/Random play

 - 11 Title list
 - Pause
- [9] Disc Number Search
- [30] Multi CD player number
- [31] Disc number
- [32] Manual [33] Multi-play CD repeat
- [34] Disc repeat
- [35] Function
- [36] Playback time
- [37] Track number

Disce

· Only use compact discs (optical digital audio discs) bearing the mark shown below.



- · Do not use cracked, scratched, or warped discs.
- Do not touch the disc's playing side. Handle the disc as shown below.



- Do not affix any label on the disc.
- Do not apply any vinyl record spray, antistatic agent, benzene, paint thinner, or any other volatile chemicals.

Do not play a dirty disc. Use a soft cloth to clean a dirty disc as shown below. Wipe the disc outward from the center.



- Do not place the disc in high temperatures and direct sunlight.
- Be sure to store the disc in its case.

CD Playing Environment

- Disc playback may be interrupted by sudden road shock.
- When the air temperature is low and the car heater is turned on, condensation on the disc and internal parts of the unit may prevent proper playback operation. If this happens, turn off the unit and wait one hour until the condensation is gone. Also, use a soft cloth to wipe off any condensation from the disc.

Listening to the Built-in CD Player

- 1. With the label side up, insert a disc into [3]. Playback will start. (The track number [37] and playback time [36] will be displayed.)
- Do not insert the disc with the label side down. Doing so may scratch the disc.
- If the disc stops midway while it is being inserted or if there is no playback after a disc is inserted, something may be wrong with the disc. Eject the disc and check it.
- 2.Turn ON/OFF the disc playback. Press
 - button [4] to change the source.

 For details, refer to "Changing the Source".

3. Eject the disc by pressing button [2].Do not leave the disc halfway into the

unit as shown below. Doing so may cause the disc to be bent or dropped.



Listening to the Multi-Play CD **Player**

- 1.Set the source to "multi-play CD player" by pressing button [4].
- (The magazine number [30], disc number [31], track number [37], and playback time [36] will be displayed.) • For details, refer to "Changing the
- Source".
- After a magazine is inserted into the multi-play CD player, it will take several seconds for disc playback to start. ("READY" will light.) It is because the multi-play CD player will check the discs.
- 2. Press button [4] to turn OFF when stopping disc playback.

Switching functions

Button [8] has two functions. It switches ITS, random replay, etc. ON and OFF and it also serves as the disc number search. Press button [7] to switch the function as desired.

Function ON:

[35] lights up on the display. Button [7] lights up in yellow.

Leave the function ON when using button [8] for ITS random playback, etc.

Function OFF:

[35] on the display switches off. Button [7] lights up in red.

Leave the function OFF when using button [8] for disc number search.

Switching the multi CD player

A maximum of 4 multi CD players can be connected to this unit.

Press button [5] to choose the desired CD player. The number of the CD player is indicated in [30] on the display.

3. DISASSEMBLY

Removing the Case

- 1.Remove the three screws.
- 2.Insert and turn a flat screwdriver at locations indicated by arrows to remove the case.

Removing the Detach Grille Assy

1.Press the detach button, and then pull detach grille Assy.

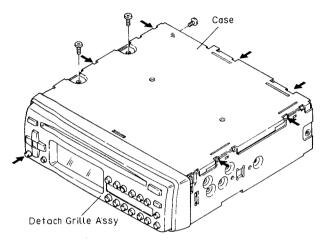


Fig.6

●Removing the Panel Unit

- 1.Remove the screw and disconnect the two stoppers indicated by arrows.
- 2.Disconnect the connector.

Removing the CD Mechanism Module

- 1.Remove the four screws.
- 2.Disconnect the connector.
- 3.Remove the CD Mechanism Module.

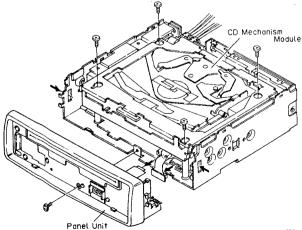


Fig.7

●Removing the Chassis Unit

- 1.Remove the two screws.(UC,ES model)
 Remove the three screws.(EW model)
- 2.Remove the screw and then remove the holder.
- 3.Stretch the four claws.
- 4.Remove the chassis Unit

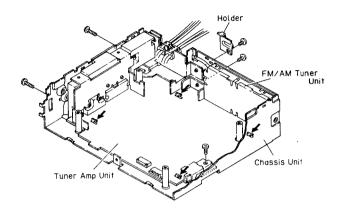


Fig.8

● Removing the PU Unit and Carrige Motor Assy

- 1.Remove the spring B as indicated by the arrow.(Fig.9)
- 2.Remove the spring A.(Fig.9)
- 3.Remove the engagement as indicated by the arrows 1 and 2, and then remove the clamper assy.(Fig.9)

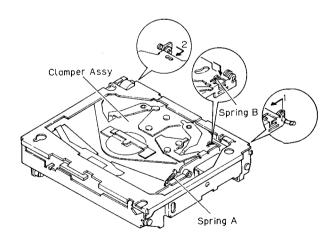


Fig.9

DEH-P705,P65,P605,P703,P705RDS

- 4.Fix short pin when removing the CN351 connector (For protection of the PU unit.)(Fig.10)
- 5.Remove the three screws.(Fig.10)
- 6.Since the control unit is connected to the switch substrate by means of connector, disconnect the connector and then remove the control unit right downward. (Fig.10)

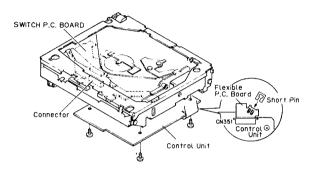


Fig. 10

- 7. Hook the spring as shown in the figure. (Fig. 11)
- 8.Remove the holder and screw.(Fig.11)
- 9.Remove the flexible P.C.Board.(Fig.11)
- 10.Remove the PU Unit.(Fig.11)

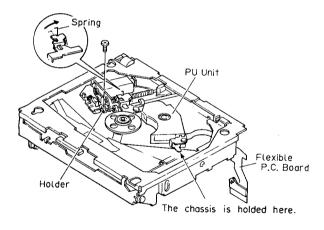


Fig. 11

11.Remove the screw, and then remove the carriage motor assy.(Fig. 12)

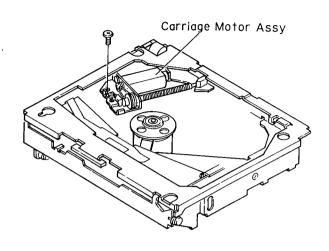


Fig. 12

●Removing the Damper Unit and Loading Motor

- 1. Turn the gear A manually in the arrow direction. (Fig. 13)
- 2.Press the rack gear in the arrow direction and engage gears.(Fig.13)
- 3.Put into the play mode.(The clamper assembly is at low position.)(Fig.13)

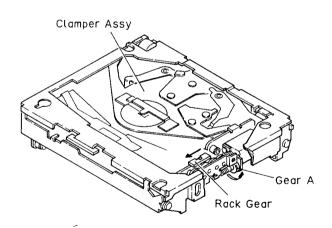


Fig. 13

3EH-P705,P65,P605,P703,P705RDS

- 4.Remove the four springs indicated by arrow.(Fig.14)
- 5.Remove the two screws A, and then remove the side frame assy.(Fig.14)
- 6.Remove the two screws B, and then remove the damper assy.(Fig.14)

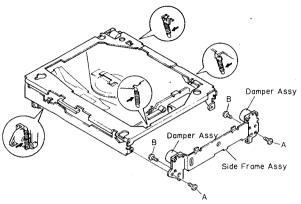
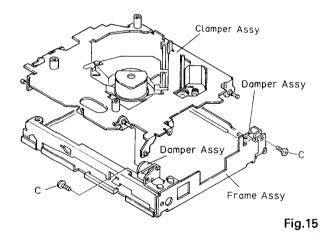


Fig.14

- 7.Remove the frame assy from the mechanical parts. (Fig.15)
- 8.Remove the two screws C, and then remove the damper assy.(Fig. 15)
- 9.Remove the clamper assy as shown in Fig.15.



10. Turn the Loading gear to put into the ejection. (Fig. 16)

11.Remove one of the screws and remove the gear unit pressing the arm slightly toward the arrow. (Fig. 16)

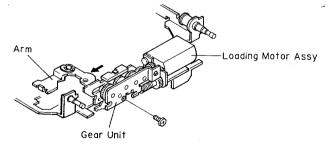


Fig.16

12.Remove the screw, and then remove the loading motor assy.(Fig.17)

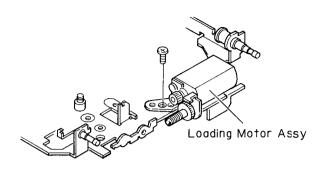
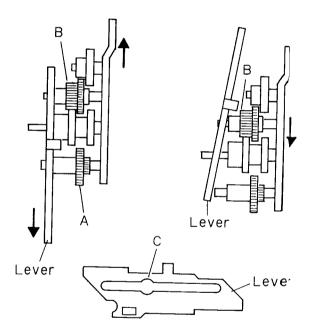


Fig.17

●Removing the Gear Unit

13. Shift lever as shown in Fig. 18.

- 14.Remove the shaft A from C of lever.
- 15. Shift the gear as shown in Fig. 18.
- 16.Remove the shaft B from C of lever.



Fg.18

4. CIRCUIT DESCRIPTION

●Pre Attenuator Circuit

This model employs a pre attenuator circuit.

It is the circuit which attenuates an input level in the pre-stage of an electronic volume control according to the volume level.

The circuit permits us to improve the distortion factor at an ordinary playback level(at the ordinary volume level).

Once the transistor encircled with a dot line in the illustration has turned on, a resistance division will cause the input level to attenuate by -2 and -4 decibels.

An input to the electronic volume control varies as follows:

- 1. 0dB, with both transistors opened at the maximum.
- 2. -2dB, with the -2dB transistor ON.
- 3. -4dB, with the -4dB transistor ON.
- 4. -6dB, with both transistors ON.

This Model is to operate really in a combination with the electronic volume controls as follows:

VOL Control	30	29	28	27	26	25	 	0
Pre Attenuator	0	-2	-4	-6	-6	-6	 	-6
Eectronic volume	0	0	0	0	-2	-4	 	-00

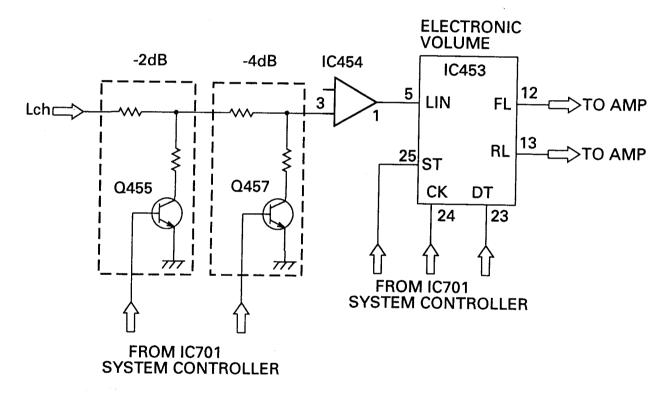
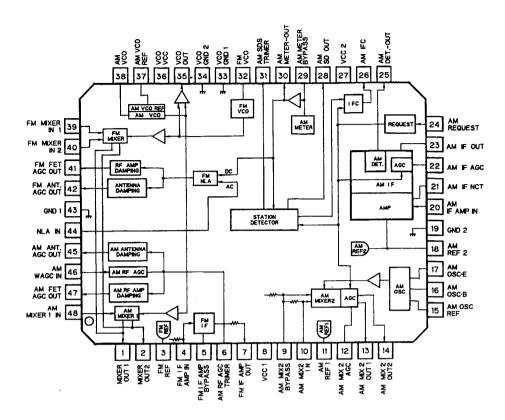


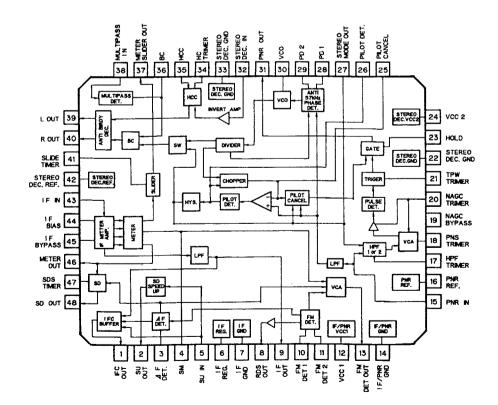
Fig. 19

ICs

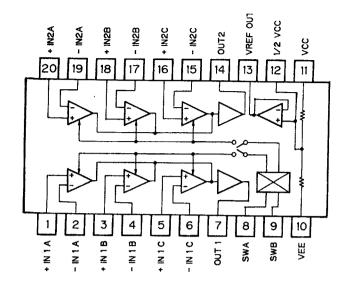
PA2021A



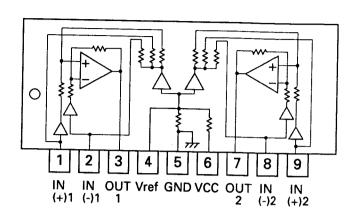
PA2022A



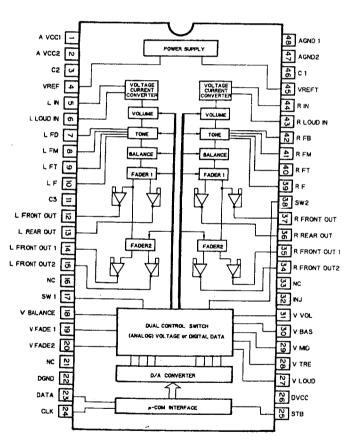
XRA3131FS



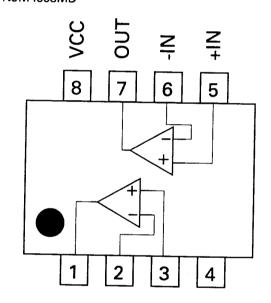
TA2050S



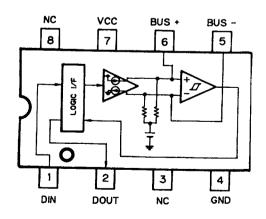
PM0004AM1



NJM4558MD



PA0051AM



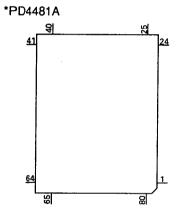
Pin No.	ctions(PD4481A Pin Name	1/0	Output	Function and Operation
	DOENO	ļ <u>.</u>	Format	Grille detach sense input
1	DSENS RDSRST	0	С	Reset output for RDS IC
3	RDSSEL	0	l c	Select output for RDS IC
4	AVSS	 	 	A/D GND
5	RDSEN	0	С	Enable output for RDS IC
6	RDSRDY	1 -		Ready input from RDS IC
7	AVREF	 	 	Hoddy Input Holl Hose to
	KYDT	 		Key data input
8 9	DPDT	0	С	Display and illumination data output
10	SWVDD	0	Č	Grille power supply control output
11	RDSDI	 	+	Serial data input for RDS IC
12	RDSDO	6	С	Serial data output from RDS IC
13	RDSCK	0	C	Serial clock for RDS IC
14	BRST	0	C	P-BUS reset output
	BRXEN	1/0	C	P-BUS reception enable input/output
15 16	BSRQ	1/0	 	P-BUS communication request input
17	BSIO	1/0	C	P-BUS communication data input/output
18	BSCK	1/0	C	P-BUS communication data clock input/output
19	SOR0	0	C	Source select output
	SOR1	0	C	Source select output
20 21	VST	0	C	Strobe output for electronic volume
	VDT	0	C	Data output for electronic volume
22 23	VCK	0	C	Clock output for electronic volume
23	NC NC	 	+	Not used
	TMUTE	0	c	Tuner mute output
25	MUTE	0	C	Mute output
26 27	ASENBO	0	C	Slave power supply control output
	ANTFIX	0	C	Tuner diversity fix select output
28 29	EVCON0	0	C	Distortion revision port for electronic volume
30	EVCON0	0	 č	Distortion revision port for electronic volume
31,32	NC	$+$ $\overline{}$		Not used
31,32	VSS		 	GND
	NC	 	- 	Not used
34,35	SUBW0	0	N	Sub woofer control 0
36	SUBW1	1 6	T N	Sub woofer control 1
37 38		0	N	Audition output
	VOC CDPW	0	N N	CD power control
39		 	IN	Test program input
40	TESTIN	+ -	С	System power supply control output
41	SYSPW	 		CD mechanism module power supply short sensor input
42	VDIN CDRST		С	Reset for CD mechanism module
43			C	Tuner power supply control output
44	TUNPW	0	C	Beep tone output
45 46	PEE	+ +	 	Illumination sense input
46	ISENS	+-	c	LCD back light control output
47	BLGT	0	- C	Illumination power supply control output
48	ILMPW	0_	C	Clock adjustment output
<u>49</u>	PCL	0	C	FM/AM power select output
50	FM/AM	0	- C	Forced mono output
51	MONO	0	 	Not used
52-55	NC	+	+	IP BUS data output
<u>56</u>	TX	0	C	
57	RX	╅┷	- -^	P BUS data input Power supply control output for IP BUS interface IC
58	IPPW	<u> </u>	С	
59	SD	<u> </u>		FM SD input
60	RESET			Reset
61	NC	1	_1	Not used

Pin No.	Pin Name	1/0	Output Format	Function and Operation
62	BSENS	ı		Back up power sense input
63	ASENS	1		ACC power sense input
64	PDI			PLL data input
65	- PDO	0	С	PLL data output
66	PCK	0	С	PLL clock output
67	PCE	0	С	PLL chip enable output
68	VDD			Power supply
69	X2			Crystal oscillator connection pin
70	X1			Crystal oscillator connection pin
71	IC			Connect to GND
72	XT2			Not used
73	TELIN	1		Telephone mute input
74	AVDD			
75	AVREF			
76	SL			Signal level input
77	SEL0	I		Model select pin
78	SEL1	1		Model select pin
79	SEL2	ı	,	Model select pin
80	SEL3	1		Model select pin

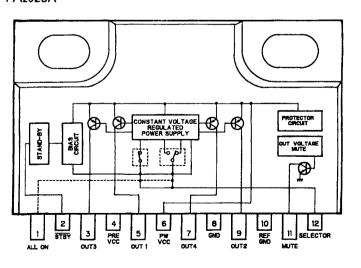
Output Format	Meaning
С	CMOS
N	N channel open drain

IC's marked by* are MOS type.

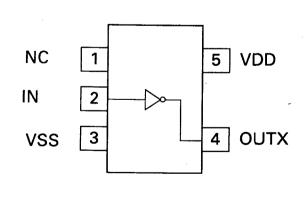
Be careful in handing them because they are very liable to be damaged by electrostatic induction.



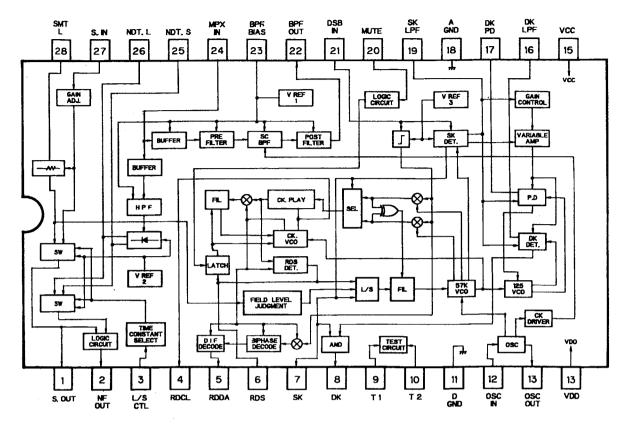
PA2023A



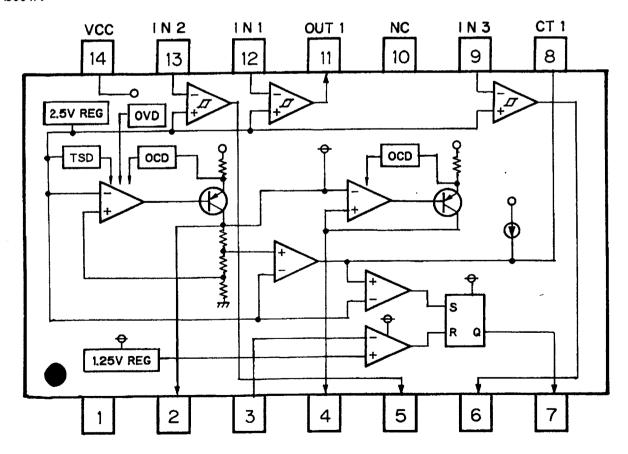
SC14SU69F



*PMR001A



PAJ001A

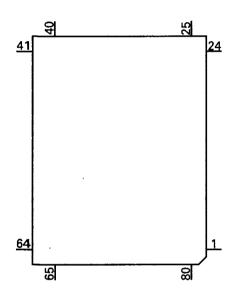


Pin Functions(PD5256A)

Pin No.	Pin Name	1/0	Output Format	Function and Operation
1	NC	+	rormat	Not used
2	TEMP	1 1		Temperature detector
3	VDSENSE2	Ti		Short sense input
4	DCD	Ö	NM	Command/data appointment output
5	DCS	0	NM	Chip select output
6	DRDY	 	14141	Ready input
7	DRST	Ö	NM	Reset output
8	A0	0	NM	
9	XSCK	0	NM	Control signal distinguishing data from microcomputer
10	XSO	0	NM	LSI clock output LSI data output
11	XSI	1 1	INIVI	LSI data output
12	STB	 0	С	LSI Strobe output
13	RST	0	C	Reset ouput pin
14	ENDOUT	0	C	Digital output enable signal
15	PEE	Ö	C	Beep tone output
16,17	NC	 	+	Not used
18	BRST		_	
19	BSRQ	6	С	Bus communication reset input pin
20	BRXEN	1/0	C	Bus communications service request output pin
21	BSCK	1/0		Bus communication reception enable input pin
22	BSO		C	Bus serial clock input/output
23	BSI	<u> </u>	L C	Serial data output pin
		 		Bus serial data input
24 25	EJSW	 		Eject signal input
26	REMIN	⊢ '		Remote control pulse input
	CNVSS		ļ	GND
27	RESET		<u> </u>	Reset input
28	FECNT	0	С	FE output control pin
29	NC			Not used
30	XIN			Crystal oscillating element connection pin
31	XOUT	0	С	Crystal oscillating element connection pin
32	VSS			GND
33–40	NC			Not used
41	POWER	0	С	CD +5V control
42	CONT	0	С	Servo driver power supply control
43,44	NC			Not used
45	VDSENS	1		VD over voltage sense input
46	VDCONT	0	C	VD control input
47	DSET	0	С	Disc set indicator control output
48	BLGT	0	С	LCD back light control output
49	VMC	0	С	Loading motor driver power supply
50	EJ	0	C	Loading motor EJECT control
51	LOAD	0	С	Loading motor LOAD control
52	NC			Not used
53	DINC	1		Disc insert sense input
54	EJTD	1		Disc eject position sense input
55	CLAMP	1		Disc clamp sense input
56	NC			Not used
57	HOLD	0		Hold control output
58	TBC	0	С	Tracking bank switching output
59	NC			Not used
60	MIRR	1		Mirror detector input
				Spindle lock detector input
61	LOCK			
61 62	LOCK FOK	i		
62	FOK			FOK signal input
62 63	FOK HOME	İ		FOK signal input Home position detector input
62	FOK	İ		FOK signal input

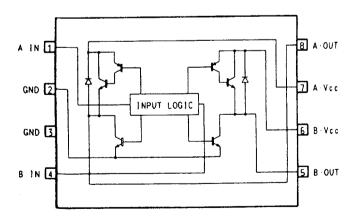
Pin No.	Pin Name	I/O	Output Format	Function and Operation
71	ADENA	0	С	A/D reference voltage output
72	TESTIN	I		Test program mode input
73	VCC			Back up 5V
74	VREF	1		A/D reference voltage input
75	AVSS			A/D GND
76	CSEL			Compression select
77,78	NC			Not used
79	KD0	1		Analog key input 0
80	KD1	1		Analog key input 1

*PD5256A



Output Format	Meaning
С	CMOS
NM	Middle resistivity
	N channel open drain

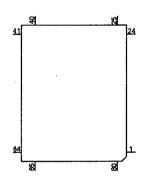
MB3854PF



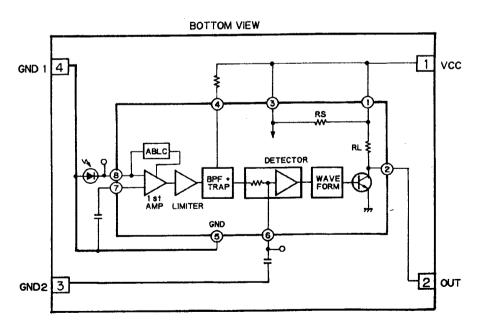
●Pin Functions (PD6122A)

	iii unctions (i Dotzen)				
Pin No.	Pin Name	1/0	Function and Operation		
1	VSS		GND		
2	X1		Crystal oscillator connection pin		
3	X0		Crystal oscillator connection pin		
4	RESET		Reset Input		
5,6	MOD1,0		Model select input		
7	DILMX	0	Function LED select output		
8	KYDT	0	Key data output		
9	DPDT	1	Display data input		
10	REMIN	ı	Remote control pulse input		
11	SILMO	0	Illumination color select output		
12	SILMG	0	Function LED select output		
13-16	KD4-KD1	I	Key sense input		
17–22	KDT6-1	0	Key strobe output		
23	VDD		5V		
24-34	NC		Not used		
3573	SEG38-0		LCD segment output		
74–77	COM3-0	0	LCD common output		
78–80	VLCD-V1		Power supply terminal		

*PD6122A

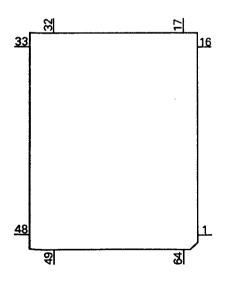


RS-30

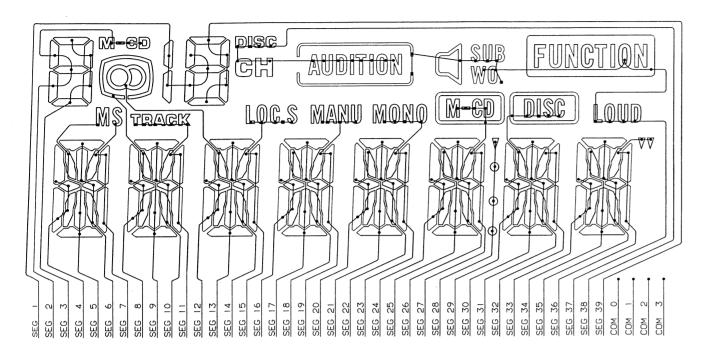


●Pin Functions (PD0191A)					
Pin No.	Pin Name	1/0	, , ,	Function and Operation	
		<u> </u>	Format		
	RDSEN	<u> </u>		Enable input from system control IC	
	RDSCK	1		Serial clock input from system control IC	
3–6	RDSDT7-4	1/0	C	Data input/output to system control IC	
7–15				Not used	
16	RDSSEL	1		Select input from system control IC	
17	TUNSEL	1		FM/AM tuner unit select input	
18,19				Not used	
20	CNVSS	1		GND	
21	RDSRST	1		Reset input from system control IC	
22	XIN	1		Crystal oscillating element connection pin	
23	XOUT	0		Crystal oscillating element connection pin	
24	NC			Not used	
25	VSS			GND	
	SCHK	ı		Software check input	
27-31				Not used	
32	RCK	1		RDS demodulation clock input	
	RDT			RDS demodulation data input	
34-45				Not used	
	DRST	0	С	Decoder reset output	
47				SD input	
	SK			SK signal input	
	RDSLK	1 1		RDS LK signal input	
	DK			DK signal input	
	ERROR	0	С	Disapprove of error correction output	
	CORR	0	С	Error output	
	RECIVE	0	С	During RDS data reception output	
54-56		<u> </u>		Not used	
	FZOUT	0	С	Fuzzy control output	
58				5V	
59				Not used	
	FZIN	T		Fuzzy level input	
61		l i		Signal level from tuner	
62,63		1		Not used	
	RDSRDY	0	С	Ready output for system control IC	

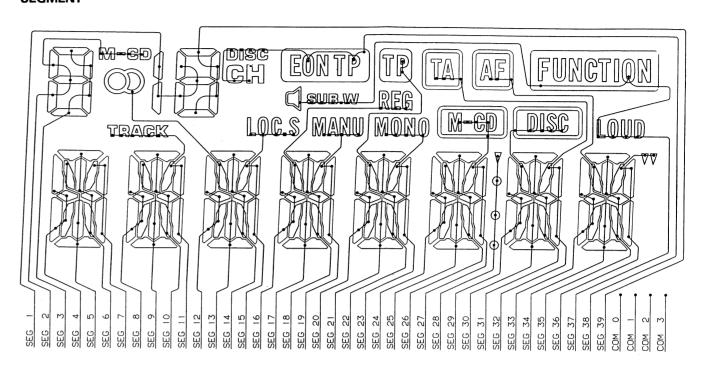
*PD0191A



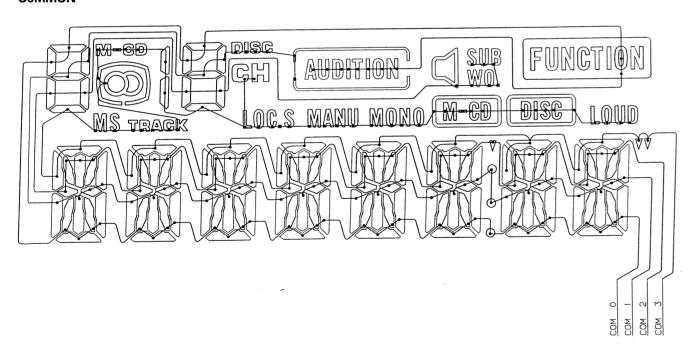
●LCD(CAW1222)(UC,ES Model) SEGMENT



●LCD(CAW1221)(EW Model) SEGMENT



COMMON



COMMON

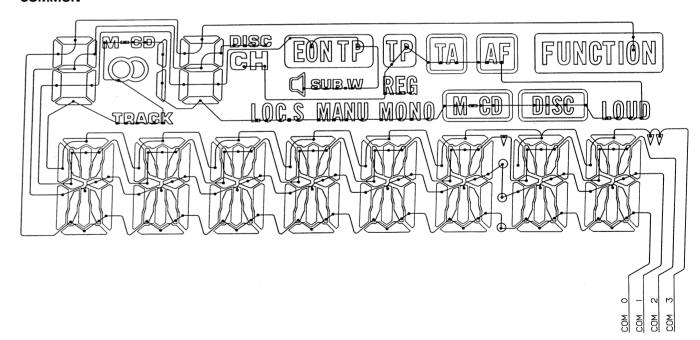


Fig.21

5. BLOCK DIAGRAM

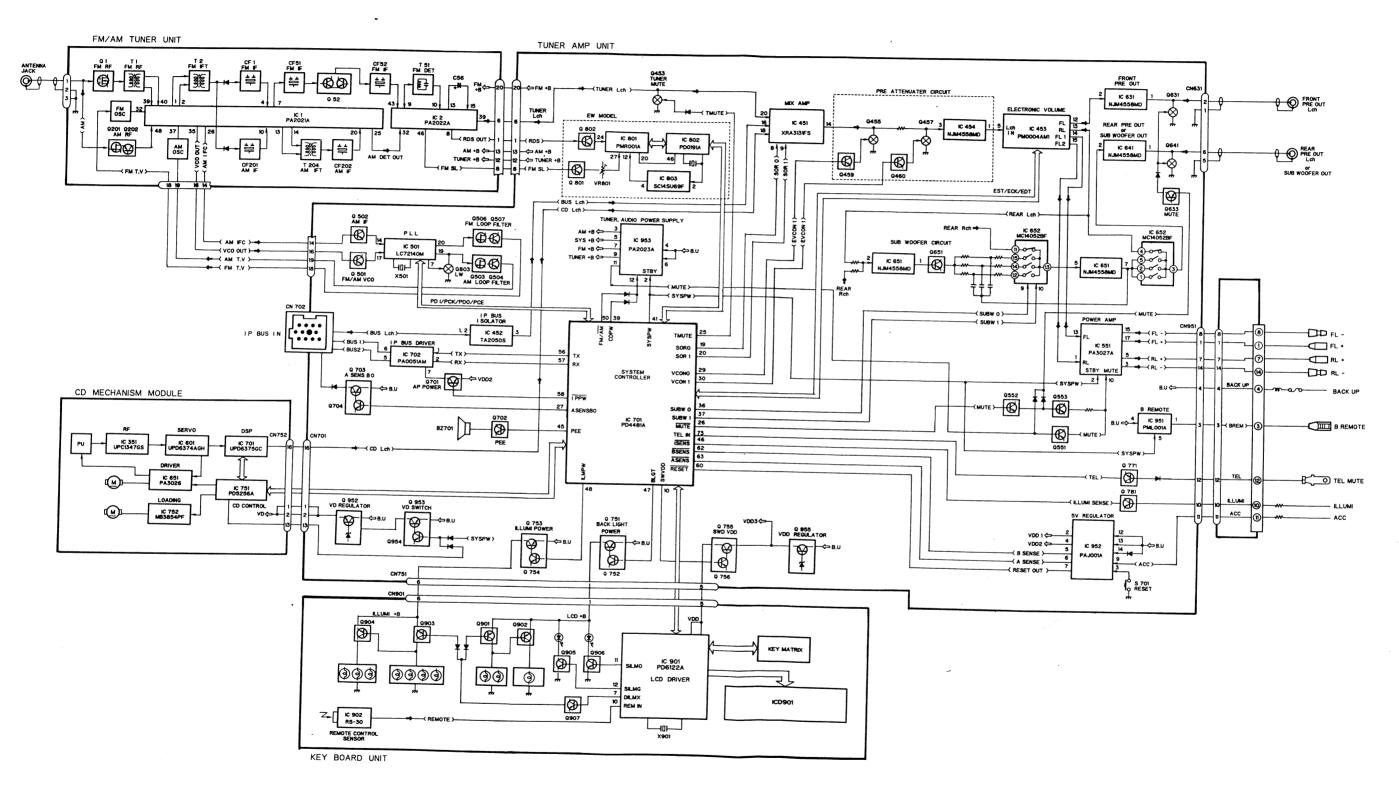


Fig.22

1-28

6. ADJUSTMENT

6.1 CD ADJUSTMENT

1)Precautions

This unit uses a single power supply (+5V) for the regulator. The signal reference potential, therefore, is connected to REFOUT(approx. 2.5V) instead of GND.

If REFOUT and GND are connected to each other by mistake during adjustments, not only will it be impossible to measure the potential correctly, but the servo will malfunction and a severe shock will be applied to the pick-up. To avoid this, take special note of the following.

Do not connect the negative probe of the measuring equipment to REFOUT and GND together. It is especially important not to connect the channel 1 negative probe of the oscilloscope to REFOUT with the channel 2 negative probe connected to GND.

And since the frame of the measuring instrument is usually at the same potential as the negative probe, change the frame of the measuring instrument to floating status.

If by accident REFOUT comes in contact with GND, immediately switch the regulator or power OFF.

- Always make sure the regulator is OFF when connecting and disconnecting the various filters and wiring required for measurements.
- Before proceeding to further adjustments and measurements after switching regulator ON,let the player run for about one minute to allow the circuits to stabilize.
- Since the protective systems in the unit's software are rendered inoperative in test mode, be very careful to avoid mechanical and /or electrical shocks to the system when making adjustment.

- ■Test mode starting procedure Switch ACC,back-up ON while pressing the 4 and 6 keys together.
- Test mode cancellation
 Switch ACC,back-up OFF.
- Disc detection during loading and eject operations is performed by means of a photo transistor in this unit.Consequently,if the inside of the unit is exposed to a strong light source when the outer casing is removed for repairs or adjustment,the following malfunctions may occur.
 - *During PLAY, even if the eject button is pressed, the disc will not be ejected and the unit will remain in the PLAY mode.
 - *The unit will not load a disc.

When the unit malfunctions this way, either re-position the light source, move the unit or cover the photo transistor.

- When loading and unloading discs during adjustment procedures, always wait for the disc to be properly clamped or ejected before pressing the another key. Otherwise, there is risk of the actuator being destroyed.
- ■Turn power off when pressing the button FWD or the button REV key for focus search in the test mode. (Or else lens may stick and the actuator may be damaged.)

Key	Function
BAND	Regulator ON/OFF
FWD	FWD Kick
REV	REV Kick
7	Tracking close

Key	Function
8	Tracking open
9	Focus close
12	Carriage/Tracking

Press 7,8,9 and 12 keys when the function is on.

- SINGLE/10TRK/32TRK will continue to operate even after the key is released. Tracking closed the moment C-MOVE is released.
- JUMP MODE resets to SINGLE as soon as power is off.

●Flow Chart

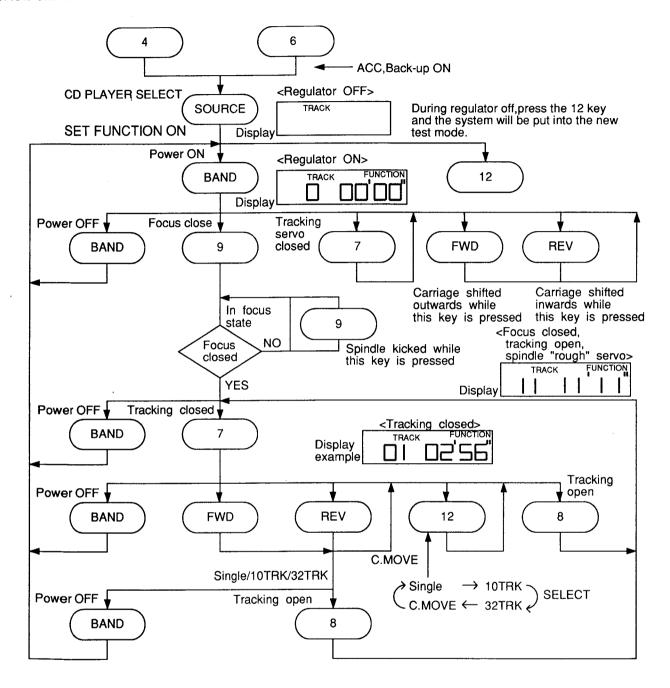


Fig.23

7 key(FUNCTION ON MODE) 8 key(FUNCTION ON MODE) 9 key(FUNCTION ON MODE) 12 key(FUNCTION ON MODE)

Measuring Equipment and Jigs

Adjustment	Measuring equipment & jigs
1 Grating Adjustment	
(Rough adjustment) -	Oscilloscope, clock driver, grating adjustment filter (bandpass filter) (GGF133), AC millivoltmeter
	TCD-782 (or SONY TYPE4)
	ExtensionCable:GGF1132,GGF1135,GGF1128,GGF1126,GGF-070
2 Tangential Skew Check	Oscilloscope,screwdriver
	TCD-782 (or SONY TYPE 4)
	Extension Cable:GGF1132,GGF1135,GGF1128,GGF1126,GGF-070
3 Grating Adjustment (Fine adjustment)	Oscilloscope,clock driver,two low-pass filters
	TCD-782 (or SONY TYPE 4)
	Extension Cable:GGF1132,GGF1135,GGF1128,GGF1126,GGF-070
4 FE Bias Adjustment	Oscilloscope
	TCD-782 (or SONY TYPE 4) Extension Cable: GCE1122 GCE112E CCE1120 GCE1120 GCE
	Extension Cable:GGF1132,GGF1135,GGF1128,GGF1126,GGF-070
5 RF Offset Adjustment	Oscilloscope
	TCD-782 (or SONY TYPE 4) Extension Cable GGE1122 GGE1125 GGE1120 GGE1
	Extension Cable:GGF1132,GGF1135,GGF1128,GGF1126,GGF-070
6 TE Offset Adjustment-1	DC voltmeter
	Extension Cable:GGF1132,GGF1135,GGF1128,GGF1126,GGF-070
7 Tracking Balance Adjustment-1	Oscilloscope
	TCD-782 (or SONY TYPE 4)
	Extension Cable:GGF1132,GGF1135,GGF1128,GGF1126,GGF-070
8 Focus Servo Loop Gain Adjustment	Oscillator,gain adjustment filter (GGF-065),
	dual meter milli-voltmeter TCD-782 (or SONY TYPE 4)
	Extension Cable:GGF1132,GGF1135,GGF1128,GGF1126,GGF-070
O Tracking Come Land Coin	
9 Tracking Servo Loop Gain Adjustment	Oscillator,gain adjustment filter (GGF-065), dual meter milli-voltmeter
	TCD-782 (or SONY TYPE 4)
	Extension Cable:GGF1132,GGF1135,GGF1128,GGF1126,GGF-070
10 TE Offset Adjustment-2	DC voltmeter
	Extension Cable:GGF1132,GGF1135,GGF1128,GGF1126,GGF-070
11 Tracking Balance Adjustment-2	Oscilloscope
	TCD-782 (or SONY TYPE 4)
	Extension Cable:GGF1132,GGF1135,GGF1128,GGF1126,GGF-070

●Adjustment Point

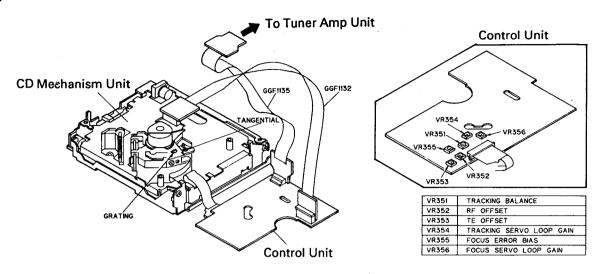
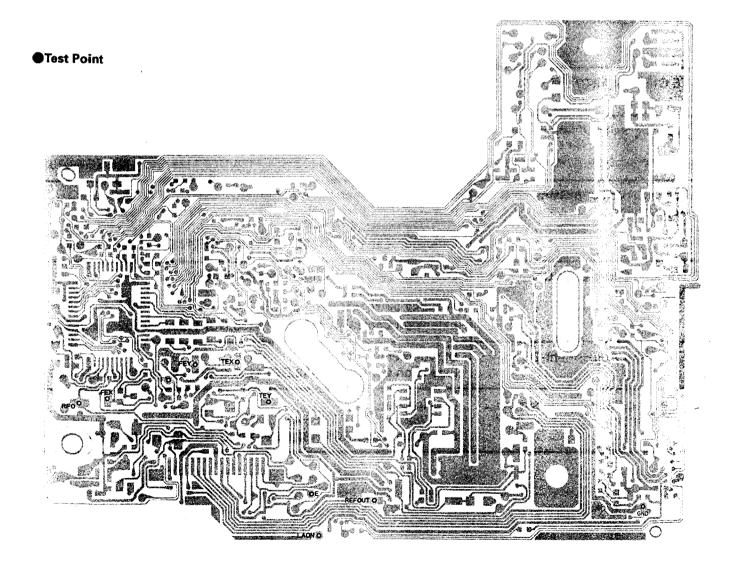


Fig.24



1 Grating Adjustment (Rough adjustment)

· Purpose:

The grating may need adjustment in a replaced pickup unit.

Maladjustment symptoms:

No disc playback; track jumping.

Measuring eauipment / jigs

· Oscilloscope, clock driver, grating adjustment filter (bandpass) filter)(GGF-133),AC millivoltmeter.

Measuring point

• TFY

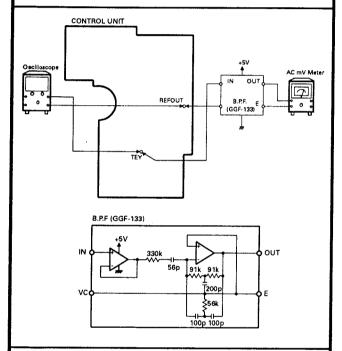
Test disc and setting

• TCD-782 (or SONY TYPE 4)

· Test mode.

Adjustment position

· Pick-up grating adjustment hole.



Adjustment Procedure

- 1. Switch regulator ON in test mode, and load a disc.
- 2. Use FWD or REV key as required to bring pick-up at the adjusting hole on control unit (Tune TNO 19). (TYPE 4:TNO 14)

Match with TNO 19 (TYPE 4:TNO 14) when releasing the control unit.

- 3. Press the 9 key to close focus.
- 4. While monitoring the TEY filter output by AC millivoltmeter, turn the grating adjustment hole slowly. The AC voltage increases and decreases while turning the screw. Search for the minimum voltage level. (This corresponds to the position where the grating is on a track, and is referred to as the null point.)
- 5. Then while monitoring TEY by oscilloscope, turn the driver slowly clockwise from the null point (as seen from under the pick-up) until the first wave form peak amplitude is reached.

2 Tangential Skew Check

Purpose:

To check whether tangential skew has been misaligned or not when replacing the pick-up unit.

Maladjustment symptoms:

No disc playback; track jumping.

· Measuring equip-

Oscilloscope, screwdriver

ment / jigs

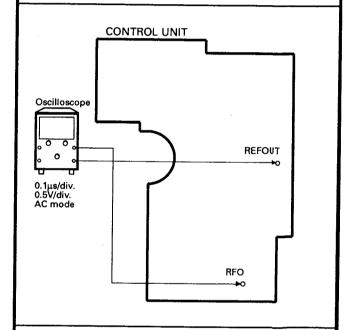
Measuring point · Test disc and setting

• TCD-782 (or SONY TYPE 4)

Normal mode

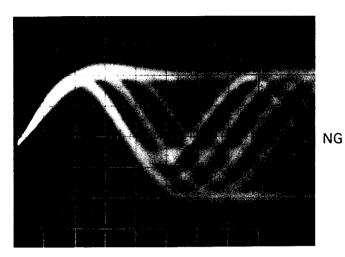
Adjustment position

· Pick-up tangential adjustment screw

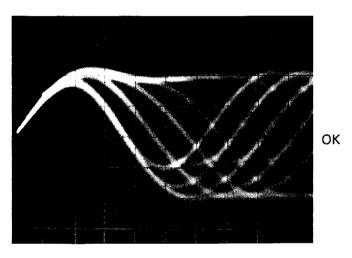


Adjustment Procedure

- 1. Check that the pick-up position does not differ from that at the same time of grating adjustment. (TCD-782:TNO19, TYPE 4:TNO 14)
- 2. Turn the tangential adjustment screw to obtain a good RF waveform eye pattern. Turn the adjustment screw both clockwise and counterclockwise to points where the eye pattern deteriorates, and take the midway point as the adjustment point. As a general guide, look for an overall clear waveform, and one of the diamond shapes in the eye pattern. The diamond shapes should appear in fine lines at the point of optimum adjustment. Take care not to knock the pick-up with the screwdriver at this stage. (This kind of a ccident can result in loss of focus.) (See Waveforn 1,2)
- 3. Apply "screw-lock" to the tangential adjustment screw.
- 4. After adjusting tangential skew, also adjust the grating.



Waveform 1



AC Mode 0.5V/div. 0.1μs/div.

Waveform 2

3 Grating Adjustment(Fine adjustment)

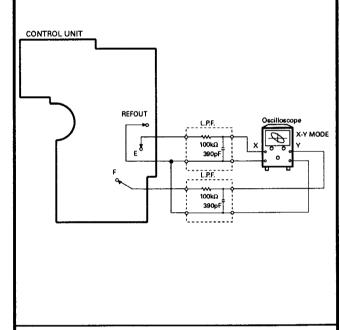
· Purpose:

The grating may need adjustment in a replaced pickup unit.

Maladjustment symptoms:

No disc playback;track jumping.

- ment / jigs
- Measuring equip- Oscilloscope, clock driver, two low-pass filters
- Measuring point
- TEY, ELPF output, FLPF output • TCD-782 (or SONY TYPE 4)
- · Test disc and setting
 - Test mode
- Adjustment position
- Pick-up grating adjustment hole



Adjustment Procedure

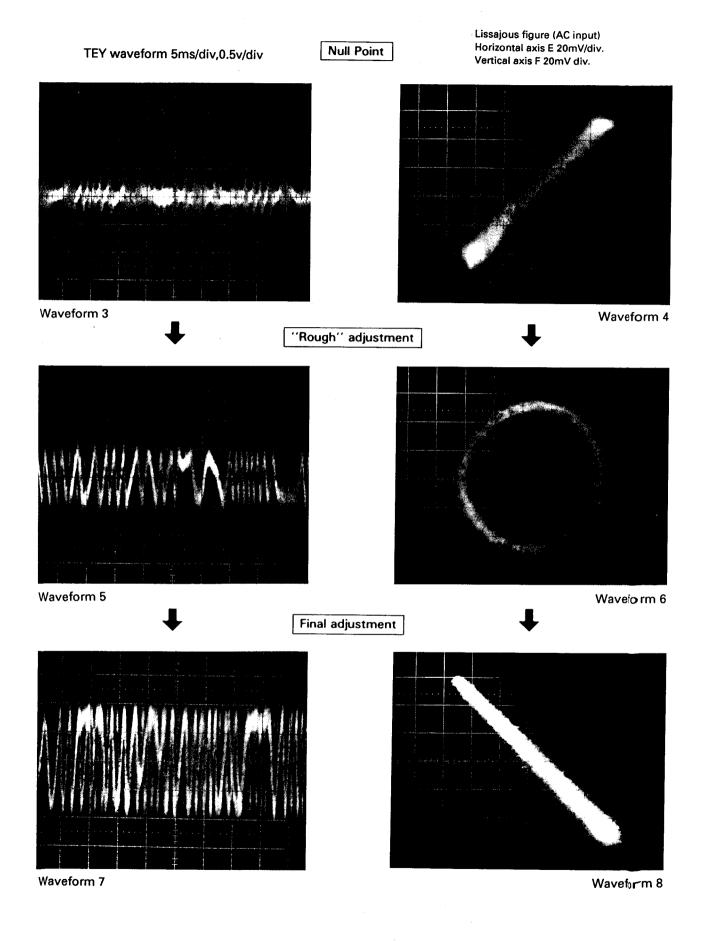
- 1. Switch regulator ON in test mode, and load a disc.
- 2. Use FWD or REV key as required to bring pick-up at the adjusting hole on control unit (Tune TNO 19). (TYPE 4:TNO 14)

Match with TNO 19 (TYPE 4:TNO 14) when releasing the control unit.

- 3. Press the 9 key to close focus.
- 4. With the E low-pass filter output connected to the X axis of the oscilloscope, and the F low-pass filter output connected to the Y axis, apply an input in AC mode and observe the Lissajous figure.

(See Waveform 3-8)

- 5. Using the driver, adjust the Lissajous figure to a single line (or as close as possible).
- 6. Switch regulator OFF and remove the filters.



4 FE Bias Adjustment

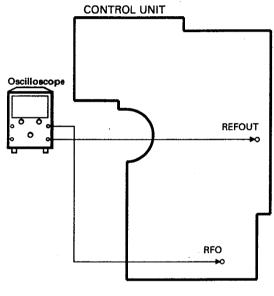
• Purpose:

To adjust the focus servo bias to an optimum value.

Maladjustment symptoms:

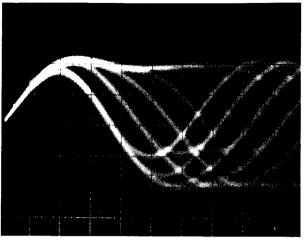
Focus closing difficulty, poor playability.

- Measuring equipment / jigs
- Oscilloscope
- Measuring point
- RFO
- Test disc and setting
- TCD-782 (or SONY TYPE 4)
- Normal mode
- Adjustment position
- VR355(FEB)



Adjustment Procedure

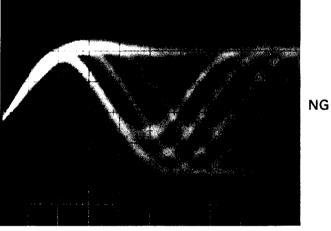
- 1. Play in normal mode.
- 2. Observe RFO in respect to REFOUT in the oscilloscope, and adjust VR355(FEB) to obtain maximum RF and eye pattern.(See Waveform 9,10)





Waveform 9

OK



AC Mode

Before adjustment

Waveform 10

5 RF Offset Adjustment

• Purpose:

To adjust the RF amplifier offset to a suitable value.

Maladjustment symptoms:

Focus closure fails readily.

· Measuring equip-

Oscilloscope

ment / jigs

• RFO

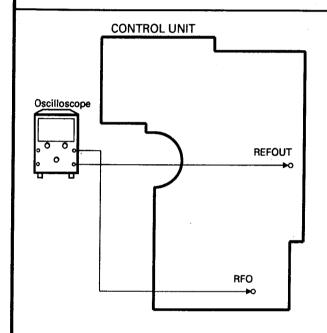
 Measuring point Test disc and setting

• TCD-782 (or SONY TYPE 4)

Normal mode

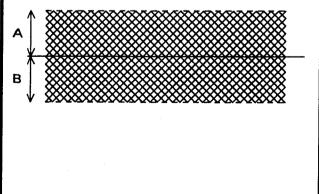
Adjustment position

VR352(RFO)



Adjustment Procedure

- 1. Play tune TNO 19 in normal mode.(TYPE 4:TNO 14)
- 2. Use VR352 to adjust the RFO waveform so that RE-FOUT appears at the center. (A-B must not exceed 100 mV.)



6 TE Offset Adjustment-1

· Purpose:

To adjust the electrical offset of the tracking servo to zero

Maladjustment symptoms:

Search times too long, carriage run-away.

· Measuring equip- · DC voltmeter

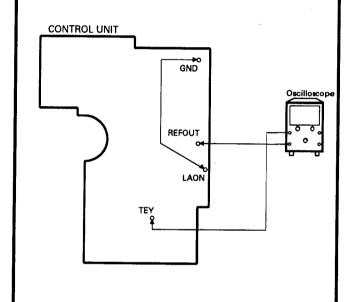
ment / jigs Measuring point

• TEY

Test disc and setting

 No Disc Test mode

Adjustment position
 VR353(TEO)



Adjustment Procedure

- 1. Connect LAON to GND.
- 2. Switch regulator ON while in test mode.
- 3. Using VR353(TEO), adjust the TEY output DC voltage in reference to REFOUT to a value of0±25mV.
- 4. Switch regulator OFF.

7 Tracking Balance Adjustment-1

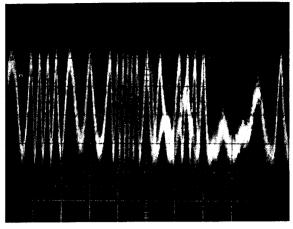
Purpose:

To adjust the tracking servo offset to zero.

Maladjustment symptoms:

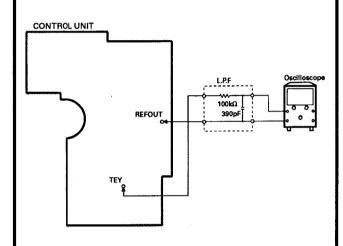
Search times too long,poor playability,carriage runaway.

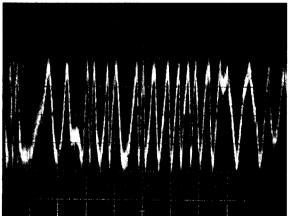
- Measuring equipment / jigs
- equip- Oscilloscope
- Measuring point
- TEY(Tracking error signal)
- Test disc and setting
- TCD-782 (or SONY TYPE 4)
- Test mode
- Adjustment position
- VR351(T.BAL)



+5% NG

Waveform 11





±0% OK

Waveform 12

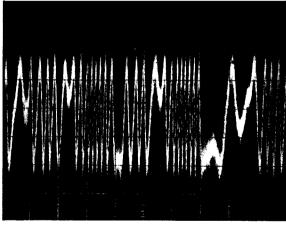
Adjustment Procedure

- 1. Set the test disc (TCD-782). Switch regulator ON.
- 2. Using the **FWD** or **REV** key,move the pick-up to about the center of the signal surface.
- 3. Press the 9 key to close focus.
- 4. Using an oscilloscope, observe the TEY signal in respect to REFOUT.

Then adjust VR351(T.BAL)to set the positive and negative amplitudes to the same levels.

(See Waveform 11-13)

5. Switch the power OFF.



-5% NG

10ms/div. 0.5V/div. DC Mode

Waveform 13

8 Focus Servo Loop Gain Adjustment

Purpose:

To adjust the focus servo loop gain to an optimum value.

Maladjustment symptoms:

Poor playability, reduced resistance to vibration, focus closure fails readily.

Measuring equipment / jigs

Oscillator,gain adjustment filter (GGF-065),dual meter mil-

li-voltmeter

Measuring point

• FEX,FEY

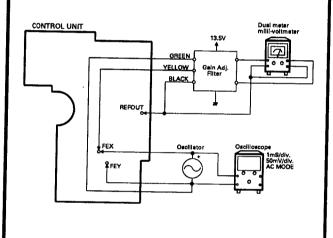
Test disc and setting

• TCD-782 (or SONY TYPE 4)

Normal mode

Adjustment position

VR356(FG)



Adjustment Procedure

- After checking that the power is OFF, connect the gain adjustment filter and measuring equipment as shown in the above diagram.
- 2. Play tune TNO 19 in normal mode.(TYPE 4:TNO 14)
- Set the oscillator to 1kHz, and observe the FEX/FEY output in the oscilloscope. Adjust the oscillator output to obtain a FEX/FEY output of 100mVp-p.
- Adjust VR356(FG) to obtain a milli-voltmeter difference of 0±0.5dB.

9 Tracking Servo Loop Gain Adjustment

· Purpose:

To adjust the tracking servo loop gain to an optimum value.

Maladjustment symptoms:

Poor playability, reduced resistance to vibration.

Measuring equipment / jigs

 Oscillator,gain adjustment filter (GGF-065),dual meter milli-voltmeter.

Measuring point

TEX,TEY

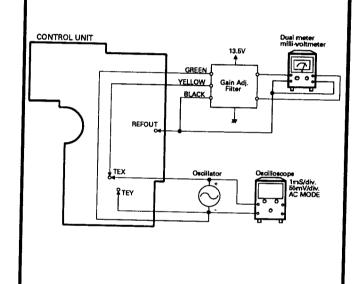
· Test disc and setting

•TCD-782 (or SONY TYPE 4)

Normal mode

Adjustment position

• VR354(TG)



Adjustment Procedure

- After checking that the power is OFF, connect the gain adjustment filter and measuring equipment as shown in the above diagram.
- 2. Play tune TNO 19 in normal mode.(TYPE 4:TNO 14)
- Set the oscillator to 1.4kHz, and observe the TEX/TEY output in the oscilloscope. Adjust the oscillator output to obtain a TEX/TEY output of 300mVp-p.
- Adjust VR354(TG) to obtain a milli-voltmeter difference of 0±0.5dB.

10 TE Offset Adjustment-2

· Purpose:

To adjust the electrical offset of the tracking servo to zero.

Maladjustment symptoms:

Search times too long, carriage run-away.

- Measuring equip- DC voltmeter ment / jigs
- Measuring point
- TEY
- Test disc and setting
- No Disc
- Test mode
- Adjustment position VR353

Adjustment Procedure

Same as for TE offset adjustment-1, but with the DC voltage of the TEY output adjusted to 0±50mV.

The purpose of this additional adjustment is to correct any deviations generated when carrying out the tracing balance and tracking servo loop gain adjustments after completing TE offset adjustment-1.

11 Tracking Balance Adjustment-2

· Purpose:

To adjust the tracking servo offset to zero.

Maladjustment symptoms:

Search times too long, poor playability, carriage runawav.

- · Measuring equip- · Oscilloscope.
- ment / jigs
- TEY
- Measuring point · Test disc and setting
- TCD-782 (or SONY TYPE 4)
 - Test mode
- Adjustment position • VR351

Adjustment Procedure

Steps 1 thru 5 same as tracking balance adjustment-1.

- 6. Check that the level difference between the positive and negative amplitudes of the TEY signal is within 5% (See Waveform 11-13)). If greater than 5%, adjust with VR351.
- 7. If further adjustment was necessary in step 6, repeat TE offset adjustment-2.

●New Test Mode (aging operation and setup analysis)

The CD ,either single or multiple, plays in the normal mode. After being set up, it will display FOK (focus), LOCK (spindle), subcode, sound skip, protection against a mechanical error or the like, occurrence of an error, cause and time of an expiry, if any, (and disc number in the multi-mode).

During the setup, the CD software operation status (internal RAM and C-point) is displayed. The software on the head unit side dose not involve any special problem but runs normally.

- (1) How to Put in the NEW TEST Mode See the test mode flow chart page 1-30.
- (2) Relations of keys between TEST and NEW TEST Modes.

P-BUS Commands IP-BUS	Keys	Test Mode		New Test Mode	New Test Mode
Commands		Regulator OFF	Regulator ON	Play in progress	Error Protection Talking place
B0 15 00	BAND	Regulator ON	Regulator OFF	_	Time of occurrence Cause of error Selected
B1 15 01	FWD		FWD-KICK	TRACK+/FWD	_
B2 15 02	REV		REV-KICK	TRACK-/REV	_
B3 15 03	7		TRACKING CLOSE		
B4 14 04	8	·	TRACKING OPEN	MODE	_
B5 15 05	9		FOCUS CLOSE	_	_
В6			FOCUS OPEN	RANDOM	
B7			Jump-OFF	_	_
B8 15 08	12	To new Test Mode	Jump-Mode selected	A/M	Occurrence T.No Time of occurrence Selected

7,8,9 and 12 keys(FUNCTION ON MODE)

Operations, such as EJECT, CD ON/OFF, etc. are to be performed normally

(3)Error Cause (Error Number) Code

Error Code	Classification	Mode	Description	Cause/Detail	
4 0	ELECTRIC	PLAY	FOK=L100ms	Put out of focus	Sca,
4 1	ELECTRIC	PLAY	LOCK=L100ms	Spindle unlocked	Stain, Vibration,
4 2	ELECTRIC	PLAY	Subcode unacceptable 500ms	Subcode fails to read	Servo defect, etc
4 3	ELECTRIC	PLAY	Sound skipped	Last address memory or	perated

^{*}The error code is identical with those in the normal mode.

(4)Indicating an Operation Status During Setup

Status No.	Description	Protection operation
01	Carriage home mode started	None
02 _	Carriage moving on the internal circumference	10-second time out
03	Carriage moving on the external circumference	10-second time out
11	Setup started	None
12	Spindle turn/Focus search started	None
13	Waiting for focus closing	Failure to focus closing
14	Spindle kicked and focus checked	Out of focus
15	Tracking closed and focus checked	Out of focus
17	Carriage closed and focus checked	Out of focus
18	Lock Waiting subcode	Failure to lock, Subcode failed to read out of focus
19	End	None

(5)Example of 7-segment Display. (a)SET UP in progress

TRACK MIN SEC

11 11 11 While in the TEST MODE, a status number is indicated in TNO, MIN and SEC.

TRACK

11

MIN SEC

11 11

(b)Operation (PLAY, SEARCH, etc.) in progress perfectly identical with that in the multi mode.

(c)Protection/Error upon occurrence

ERROR-XX While in the error mode, an error number is displayed in MIN and SEC.

Select the display with the BAND key.

TRACK MIN SEC

10 40 05 While in the PLAY MODE, an absolute time is indicated in TNO, MIN and SEC.

TRACK

MIN SEC —Select the display with the 12 key.(When function is on.)

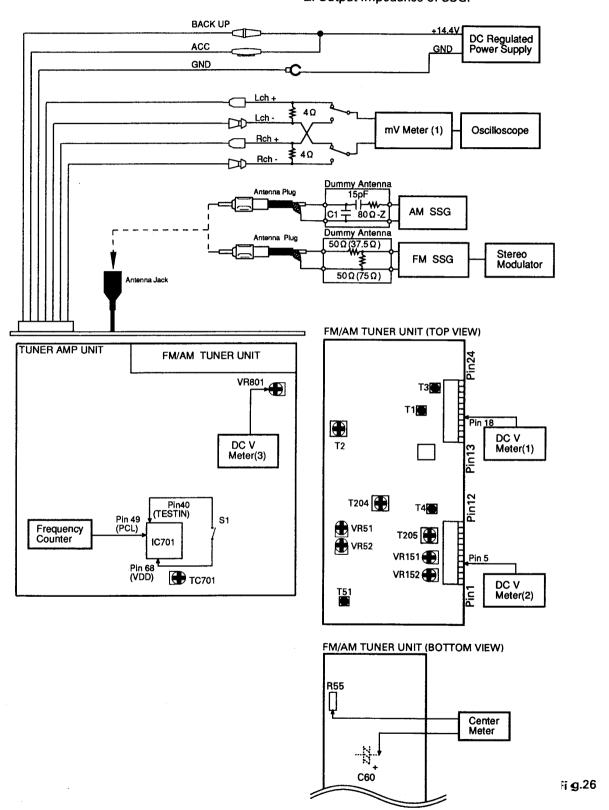
6.2 TUNER/AUDIO ADJUSTMENT

●Connection Diagram

NOTICE:

Select C1 so that total capacity of 80pF is attained from the direction of the receiver jack.

Z: Output impedance of SSG.



AM ADJUSTMENT(UC,ES MODEL)

(999): ES Model tuning steps at 9 kHz

	No	AM SSG(40	00Hz,30%)	Displayed Frequency(kHz)	Adjustment	Adjustment Method (Switch Position)
IF	1	1,000 (999)	20	1,000	T204,T205,	mV Meter(1) : Maximum

AM ADJUSTMENT(EW MODEL)

	No	AM SSG(40 Frequency(kHz)	00Hz,30%)	Displayed Frequency(kHz)	Adjustment Point	Adjustment Method (Switch Position)
IE	1	999	20	999	T204,T205,	mV Meter(1): Maximum

FM ADJUSTMENT(UC, ES MODEL)

(108) : ES Model

Modulation M:MONO MOD., 400Hz 100%(75kHz Dev.)

S:STEREO MOD., 1kHz, L or R=90%, Pilot=10%(67.5kHz+7.5kHz Dev.)

NOTE:Before proceeding to further adjustments after switching power ON, let the tuner run for ten minutes to allow the circuits to stabilize.

		FM SSG		Displayed	Adjustment	Adjustment Method
	No	Frequency(MHz)	Level(dBf)	Frequency(MHz)	Point	(Switch Position)
TUN Volt		107.9 M (108)	65	107.9	T4	DC V Meter(1): 6.5V±0.1V
IF	1	98.1 M	65	98.1	T51	Center Meter:0
ANT,RF	1	98.1 M	10	98.1	T1,T3	mV Meter(1): Maximum
IFT	1	98.1 M	10	98.1	T2	mV Meter(1): Maximum
115.1	'	30.1 141	'	1		(AUTO ON)
Soft	1	98.1 M	65	98.1		mV Meter(1) : A (AUTO ON)
Mute	2	98.1 M	15	98.1	VR52	mV Meter(1): A-3dB
MPX	1	98.1 S	65	98.1	VR152	mV Meter(1): Separation Maximum
ARC	1	98.1 S	40	98.1	VR151	mV Meter(1): Separation 5dB
SD	1	98.1 S	22	98.1	VR51	DC V Meter(2) : Approx. 5V

FM ADJUSTMENT(EW MODEL)

Modulation M:MONO MOD., 400Hz 100%(75kHz Dev.)

S:STEREO MOD., 1kHz, L or R=90%, Pilot=10%(67.5kHz+7.5kHz Dev.)

NOTE:Before proceeding to further adjustments after switching power ON, let the tuner run for ten minutes to allow the circuits to stabilize.

	FM SSG		i	Displayed Adjustme		Adjustment Method
	No	Frequency(MHz)	Level(dBf)	Frequency(MHz)	Point	(Switch Position)
TUN Volt		108.0 M	65	108.0	T4	DC V Meter(1): 6.5V±0.1V
IF	1	98.1 M	65	98.1	T51	Center Meter:0
ANT,RF	1	98.1 M	10	98.1	T1,T3	mV Meter(1): Maximum
IFT	1	98.1 M	10	98.1	T2	mV Meter(1): Maximum
11-1	'	30.1 14				(AUTO ON)
Soft	1	98.1 M	65	98.1		mV Meter(1): A
Mute	'	30.1 141				(AUTO ON)
wite	2	98.1 M	15	98.1	VR52	mV Meter(1): A-3dB
MPX	1	98.1 S	65	98.1	VR152	mV Meter(1): Separation Maximum
ARC	1	98.1 S	40	98.1	VR151	mV Meter(1): Separation 5dB
SD	1	98.1 S	22	98.1	VR51	DC V Meter(2): Approx. 5V
30	'	30.1 3				(SEEK:ON)

FM SL ADJUSTMENT(EW MODEL)

			Hz 100%(75kHz Dev	·.)	
ļ	FM SSG		Displayed	Adjustment	Adjustment Method
No.	Frequency(MHz)	Level(dBf)	Frequency(MHz)	Point	(Switch Position)
11	106.1	52	106.1		DC V Meter(3): 2.35V±0.05V
					1 20 V WIGGE (0) : 2:00 V 10:00 V

CLOCK ADJUSTMENT(UC,ES MODEL)

No.	Adjustment Point	Adjustment Method
1		Pin40 of IC701 connect to pin68(VDD)
2	TC701	Frequency Counter: 1.048576MHz±2Hz

7. ELECTRICAL PARTS LIST

NOTE:

- Parts whose parts numbers are omitted are subject to being not supplied.
- The part numbers shown below indicate chip components.

Chip Resistor

RS1/OSOOOJ,RS1/OOSOOOJ

Chip Capacitor (except for CQS.....)

CKS....., CCS....., CSZS.....

====Circui	•	ol & No	o. Part Name=====	Part No.	==	===Ci	rcuit :	Symb	ol &	No. P	art N	lame:		=		Part No.
Unit Number : CWE1312 Unit Name : FM/AM Tuner Unit			R R	7 8	14									RS1/16S563J RS1/16S152J		
	(D	EH-P70	5/UC,P703/ES,P605/UC,P6	5/UC)	R	9										RS1/16S473J
					R	11										RS1/16S474J
MISCELLAI	NEOUS				R	12										RS1/16S123J
^ 1				PA2021A	R	13	15	217								RS1/16S563J
C 1 C 2				PA2021A PA2022A	R	17		217								RS1/16S102J
				3SK195	R	21	22									RS1/16S560J
ີ 1 ຊີ 220	2			2SC2712	R	51	74									RS1/16S391J
2 2 20	2			DTC124EU	R	52	, -									RS1/16S152J
_				DT0444TH	_											D04/400754 I
2 51				DTC124TU	R	53										RS1/16S751J
2 52				2SC4207	R	54	457									RS1/16S393J
2 201				2SK435	R		157									RS1/16S682J
) 1				1SV172	R	56										RS1/16S332J
) 2	3 4			KV1410	R	58	73	203								RS1/16S102J
) 5				MA151WK	R	72										RS1/16S391J
	1 201	202		MA157	R	101										RS1/16S224J
203				SVC203CP	R	102	222									RS1/16S822J
. 1			Inductor	LCTBR12K2125	R	103										RS1/16S223J
. 25	2		Ferri-Inductor	LAU150K	R	104										RS1/16S822J
. 51			Ferri-Inductor	LAU2R2K	R	151	152									RS1/16S272J
				LAU4R7K	R	153	152									RS1/16S103J
201			Ferri-Inductor		R		155	202								
202			Coil 1mH	CTF1026			100	202								RS1/16S103J
203 204			Inductor Ferri-Inductor	LAU390K LAU680K	R R	156 158										RS1/16S153J RS1/16S393J
. 204			Terr-madoto:	LAGOOK												
205			Ferri-Inductor	LAU330K	R	159										RS1/16S103J
206			Inductor	CTF1198	R	204	213									RS1/16S222J
1			Coil	CTC1078	R	205										RS1/16S823J
2			Coil	CTE1077	R	207										RS1/16S225J
Г 3			Coil	CTC1077	R	208										RS1/16S752J
Г 4			Coil	CTC1079	R	209										RS1/16S822J
T 51			Coil	CTC1081	R	214										RS1/16S333J
202			Coil	CTB1103	R	215										RS1/16S330J
T 203			Coil	CTE1076	R	218										RS1/16S333J
Γ 204			Coil	CTE1074		220										RS1/16S100J
207			COII	012.01												,
205			Coil	CTE1075	R	221										RS1/16S473J
	1 52		Ceramic Filter	CTF1290	К	.223										RS1/16S563J
F 201			Ceramic Filter	CTF1291												
F 202				CTF1300	CA	PACI	TORS	i								
< 151			Ceramic Resonator	CSS1308												
					C	1	54									CCSRCH220J50
C 201			Crystal Resonator	CSS1111	С	2										CCSRCH390J5
√R 51			Semi-fixed 22kΩ(B)	CCP1208	Ç		102	103	154	163	203	210				CKSQYB473K1
/R 52			Semi-fixed 68kΩ(B)	CCP1211	Ć	4	12									CCSRCH070D5
/R 151			Semi-fixed 10kΩ(B)	CCP1206	С	5	53									CCSRCH270J50
/R 152			Semi-fixed 22kΩ(B)	CCP1208												
					C	6										CKSRYB222K50
AR 1		Capaci	itor with Discharge Gap	DSP-201M	C	7										CCSRCH040C5
					C	8	105									CKSRYB222K50
RESISTOR	S				C	9 10	16									CCSRCH470J50 CCSRCH090D50
₹ 1				RS1/16S223J	C	,,,										CCSNC NOSODS
				RS1/16S271J	С	11										CKSRYB223K2
₹ 2		18	20	RS1/16S223J	č	13										CCSRCH070D5
	וח זה															
3 1	10 16			RS1/16S0R0J		14										CKSQYB103K2
	10 16 5	.0		RS1/16S0R0J RS1/16S680J	Ċ	14 15	22	55	101	151	164	219	220	225	227	CKSQYB103K2 CKSQYB104K2

C 19 20 1 52 62 71 74 201 207 CESRCH8080560 T 1 COIL CTETURE C	====Circuit Symbol & N	lo. Part Name=====	Part No.	====Circuit Symbol & No. Part Name=====	Part No.
C 19 20 21 52 97 3106 213 CCSRYB1918580 T 1 1 COII CTC1079 C 24 29 73 106 213 CCSRYB191850 T 1 3 COII CTC1079 C 26 24 29 73 106 213 CCSRYB192859 T 3 3 COII CTC1079 C 26 25 231 CCSRYB192859 T 3 3 COII CTC1079 C 26 26 231 CCSRYB192859 T 3 3 COII CTC1079 C 26 26 231 CCSRYB192859 T 2 22 COII CTC1079 C 26 26 231 CCSRYB192859 T 2 22 COII CTC1079 C 26 26 211 CCSRYB192859 T 2 22 COII CTC1079 C 27 28 28 211 CCSRYB192859 T 2 22 COII CTC1079 C 28 28 CCSRYB192859 T 2 22 COII CTC1079 C 28 28 CCSRYB192859 T 2 22 COII CTC1079 C 28 28 CCSRYB192859 T 2 22 COII CTC1079 C 28 28 CCSRYB19285 T 2 22 COII CTC1079 C 28 28 CCSRYB19285 T 2 22 COII CTC1079 C 28 28 CCSRYB19285 T 2 22 COII CTC1079 C 28 28 CCSRYB19285 T 2 22 COII CTC1079 C 28 28 CCSRYB19285 T 2 22 COII CTC1079 C 28 28 CCSRYB19285 T 2 22 COII CTC1079 C 28 28 CCSRYB19285 T 2 22 COII CTC1079 C 28 28 CCSRYB19285 T 2 22 COII CTC1079 C 28 28 CCSRYB19285 T 2 22 COII CTC1079 C 28 28 CCSRYB19285 T 2 22 COII CTC1079 C 28 28 CCSRYB19285 T 2 22 COII CTC1079 C 28 28 CCSRYB19285 T 2 22 COII CTC1079 C 28 28 CCSRYB19285 T 2 22 COII CTC1079 C 28 28 CCSRYB19285 T 2 22 COII CTC1079 C 28 CCSRYB19285 T 2 22 COII T 2 2 COII T 2 2 COII T 2 CTC1079 C 28 CCSRYB19285 T 2 2 CTC1079 C 28 CCSRYB19285 T 2 2 CTC1079 C 28 CCSRYB19285 T 2 2 CTC1079 C 28 CCSRYB19285 T 2 2 CTC1079 C 28 CCSRYB19285 T 2 CTC1079 C 28 CCSR	C 18		CCSRCH080D50	L 206 Inductor	CTE1198
C2 28 07 73 106 213 CKSRY922X285 CKSRY92X285 CXSRY92X285 CXSRY92X285 CXSRY92X285 CXSRY92X285 CXSRY93X55 T 2 02 C01 CTC1077 CTC1077 CXSRY93X55 T 2 02 C01 CTC1077 CXSRY93X55 T 2 02 C01 CTC1077 CXSRY93X55 T 2 02 C01 CTC1077 CXSRY93X55 T 2 02 C01 CTC1077 CXSRY93X55 T 2 02 C01 CXTS102 CXSRY93X55 T 2 02 C01 CXTS102 CXSRY93X55 T 2 02 C01 CXTS102 CXSRY93X55 T 2 02 C01 CXTS102 CXSRY93X55 T 2 02 C01 CXTS102 CXSRY93X55 T 2 02 C01 CXTS102 CXSRY93X55 T 2 02 C01 CXTS102 CXSRY93X55 T 2 02 C01 CXTS102 CXSRY93X55 T 2 02 C01 CXTS102 CXSRY93X55 T 2 02 C01 CXTS102 CXSRY93X55 T 2 02 C01 CXTS102 CXSRY93X55 T 2 02 C01 CXTS102 CXSRY93X55 T 2 02 C01 CXTS102 CXSRY93X55 T 2 02 C01 CXTS102 CXTS102 T 2 02 CXTS102 T	C 19 20 21 52	62 71 74 201 207			
24 29 73 106 213 CKSRYB2ZXSS CKSRYB2ZXSS CKSRYB2XXSS CKSRYB2XXSS CKSRYB2XXSS CKSRYB2XXSS CKSRYB2XXSS T	23		CEA3R3M50LL		
28 28 231	24 29 73 106	213	CKSRYB223K25		0121077
29 2 21	25		CKSRYB682K50	T 3 Coil	CTC1077
2 88 231					
5 222 CASINYON SANSON T 202 COII CTB102 CASINYON SANSON T 203 COII CTB102 CASINYON SANSON T 204 COII CTB102 CASINYON SANSON T 205 COII CTB102 CTB102 CASINYON SANSON T 205 COII CTB102 CTB102 CTB102 COII CTB102 COII CTB102 CTB102 CTB102 CTB102 COII CTB102 C 26 28 231		CEA101M16LL	T 51 - Coil		
58 182 211			CKSRYB103K50	T 202 Coil	
CSRCH101360	C 56 162 211		CEA010M50LL	T 203 Coil	
C 50			CCSRCH101J50		
CEARCHMOUL CF 51 52 Caramic Filter CTF1291 CTF1291 CTF1292	C 58		CKSRYB153K25	T 204 Coil	CTE1074
CEANGLANGUL CF 1 51 52 CTF1222 EARLY CANADAL CF 201 CARTINES CT 201 CTT1226 EARLY CANADAL CF 201 CTT1226 CEANGLANGUL CF 201 CTT1226 CEANGLANGUL X 151 CARTINES CEANGLANGUL X 151 CA					
C 53 CKSDYB104K25 CF 202 C 182 153 CKSDYB104K25 CF 202 C 182 155 CKSDR1MSUL VR 52 CAPRIMOSUL CSST111 C 186 CKSDYB103K16 VR 52 CAPRIMOSUL CSST111 C 186 CKSDYB103K25 VR 151 CAPRIMOSUL CSST111 C 186 CKSDYB103K25 VR 151 CAPRIMOSUL CCP1201 CAPRIMOSUL CSST111 C 186 CKSDYB103K25 VR 151 CAPRIMOSUL CCP1201 CAPRIMOSUL CS 189 CKSDYB103K25 VR 151 CAPRIMOSUL CCP1201 CAPRIMOSUL CS 189 CKSDYB103K25 VR 151 CAPRIMOSUL CCP1201 CAPRIMOSUL CS 189 CKSDYB104K25 CAPRIMOSUL CS 189 CKS	C 60		CEAR47M50LL		
C 53 CKSPY19104K25 CF 202 CTF1900 C 85 CAGRIMBOLL C 104 CEARTMASSL X 151 Ceramic Resonator CSS1111 C 105 CKSPY1933X16 X 151 Ceramic Resonator CSS1111 C 105 CKSPY1933X16 X 151 Ceramic Resonator CSS1111 C 105 CKSPY1933X16 X 151 Ceramic Resonator CSS1111 C 105 CKSPY1933X16 X 151 Ceramic Resonator CSS1111 C 105 CKSPY1933X16 X 151 Ceramic Resonator CSS1111 C 105 CKSPY1933X16 X 151 Ceramic Resonator CSS1111 C 105 CKSPY1933X16 X 151 Ceramic Resonator CSS1111 C 105 CKSPY1933X16 X 151 Ceramic Resonator CSS1111 C 105 CKSPY1933X16 X 151 Ceramic Resonator CSS1111 C 105 CKSPY1933X16 X 151 Ceramic Resonator CSS1111 C 105 CKSPY1933X16 X 151 Ceramic Resonator CSS1111 C 105 CKSPY1933X16 X 151 Ceramic Resonator CSS1118 C 105 CKSPY1933X16 X 151 Ceramic Resonator CSS1118 C 105 CKSPY1933X16 X 151 Ceramic Resonator CSS1118 C 105 CKSPY1933X16 X 151 Ceramic Resonator CSS1118 C 105 CKSPY1933X16 X 151 Ceramic Resonator CSS1118 C 105 CKSPY1933X16 X 151 Ceramic Resonator CSS1118 C 105 CKSPY1933X16 X 151 CERAMINEL R 1 1	C 61		CEAR22M50LL		
C 56 C CEARMMSGLL X 151 C Caramic Resonator C SS1308 C SEARMMSGLL X 151 C Caramic Resonator C SS1308 C SEARMMSGL X 2011 C SEARM	C 63		CKSQYB104K25	CF 202	
C 152 153 CKSRYB333K16	C 65		CEA0R1M50LL		• • • • • • • • • • • • • • • • • • • •
X 201	C 104		CEA4R7M35LL	X 151 Ceramic Resonator	CSS1308
CSP 153					
CEARTHMODIL	C 152 153		CKSRYB333K16		
156	155		CEAR15M50LL		
CF159 CE21 CEA00M16LL CCSPCH331J60 AR 1 Capacitor with Discharge Gap CCP1208 CS2501MN16 CCSPCH312MS CCSPCH313MS CCSPCH313MS CCSPCH313MS CCSPCH314MS CCSPCH313MS CCSPCH313MS CCSPCH314MS CCSPCH313MS CCSPCH313MS CCSPCH313MS CCSPCH314MS CCSPCH313MS CCSPCH314MS CCSPCH313MS CCSPCH313MS CCSPCH314MS CC	C 156		CKSQYB333K25		
C 150	C 158 212		CEA100M16LL	· · · · · · · · · · · · · · · · ·	JU. 1200
C 190	C 159			VR 152 Semi-fixed 22kΩ(R)	CCP1208
C 100					
C 181	C 160		CSZS010M16		DO: 201111
C 202 C CSRVB332K50 C CCSRCH60U50 R 1 C CSRCH60U50 R 2 C SRSVB6271 C CSRCH60U50 R 2 C SRSVB6271 C CSRCH60U50 R 2 C SRSVB6271 C CSRCH60U50 R 3 10 16 18 20 RSIVI6S223 C 208 2215 228 C CSRCH60U50 R 4 5 RSIVI6S262 RSIVI6S0RC 209 215 228 C CSRCH60U50 R 8 8 RSIVI6S0RC 209 215 228 C CSRCH60U50 R 8 8 RSIVI6S0RC 209 216 220 C CSRCH60U50 R 8 8 RSIVI6S0RC 209 216 220 C CSRCH60U50 R 8 8 RSIVI6S0RC 209 216 220 C CSRCH60U50 R 8 8 RSIVI6S0RC 209 216 220 C CSRCH60U50 R 8 8 RSIVI6S0RC 209 C CSRCH60U50 R 8 8 RSIVI6S0RC 209 C CSRCH60U50 R 8 8 RSIVI6S0RC 209 C CSRCH60U50 R 8 112 C CSRCH60U50 R 8 8 RSIVI6S0RC 209 C CSRCH60U50 R 12 C C CSRCH60U50 R 12 C C CSRCH60U50 R 12 C C CSRCH60U50 R 12 C C CSRCH60U50 R 12 C C CSRCH60U50 R 12 C C CSRCH60U50 R 12 C C CSRCH60U50 R 12 C C CSRCH60U50 R 12 C C CSRCH60U50 R 12 C C CSRCH60U50 R 12 C C	C 161		CKSQYB104K25	RESISTORS	
C 205 CCSRCHE60J50 R 2 RS1/IBS272 C 208	C 202		CKSRYB332K50	,	
C 205 CCSRCH860J50 R 2 RS1/16S272 C 208	C 204		CCSRCH120J50	R 1	RS1/16S223.I
R 3 10 16 18 20	C 205		CCSRCH560J50	R 2	
C 208 221					
C 298 CEA470M16LL R 6 R51/165860 R51/165860 C 299 215 228 CKSRYB472K50 R 7 14 R51/165861 R51/16	C 206 221		CCSRCH680J50		
C 299 C 246 230 C 256 C 244 230 C 256 C 246 230 C 256 C 246 230 C 256 C 246 230 C 256 C 246 230 C 256 C 246 230 C 256 C 246 C	C 208				
C 214	C 209 215 228				110 1, 1000000
C 216 CCSRCH100D50 R 8 RSJ/I6ST52 R 9 RSJ/I6ST52 RSJ/I6ST5	C 214 230		CKSRYB472K50	R 7 14	RS1/16S563.I
R 9 RS1/r6S473 RS1/r6S473 RS1/r6S473 RS1/r6S474 RS1/r6S482 RS1/r6S182 RS1/r6S18	C 216				
C 217	•				
C 218 234 CEA220M16LL R 12 CEA220M16LL R 12 CEA220M16LL R 12 CEA220M16LL R 12 CEA220M16LL R 12 CEA220M16LL R 17 206 RS1//6S123 CE 224 CESRCH150.05 R 13 15 217 RS1//6S580 RS1//6S580 CEA4R7M35LL R 17 206 RS1//6S580 RS1//6S580 CEA4R7M35LL R 17 206 RS1//6S580 RS1//6S580 CEA22 CEAR8M50LL R 21 22 RS1//6S580 RS1//6S580 CE 223 CESRCH300.05 R 52 RS1//6S580 CE 223 CESRCH300.05 R 52 RS1//6S580 CE 223 CESRCH300.05 R 52 RS1//6S682 RS1//6	C 217		CCSRCH221J50		
C 222	C 218 234				
C 224 C C26 C C26 C C26 C C26 C C26 C C26 C C26 C C26 C C26 C C26 C C26 C C26 C C26 C C26 C C26 C C26 C C26 C C26 C C27					110 1/100 1200
C 226 C 229 C CARRM35LL R 17 206 RS1/16S102 C 229 C CARRSM50LL R 51 74 RS1/16S301 C 225 C 223 C CCSRCH390.50 R 52 RS1/16S301 C 233 C CKSRYB332K50 C 235 C CKSRYB332K50 C 235 C CKSRYB332K50 C 235 C CKSRYB332K50 C 235 C CKSRYB332K50 C 236 C CKSRYB322K5 R 55 157 RS1/16S682 R 55 157 RS1/16S682 R 56 RS1/16S682 R 56 RS1/16S301 R 50 RS1/16S682 R 56 RS1/16S102 R 56 RS1/16S682 R 56 RS1/16S301 R 50 RS1/16S102 R 50 RS1/16S102 R 50 RS1/16S102 R 50 RS1/16S301 R 50 RS1/16S102 R 50 RS1/16S102 R 50 RS1/16S102 R 50 RS1/16S202 R 51/16S202 R 51/16				R 13 15 217	RS1/16SE63 I
C 229 C CAR68M50LL R 51 74 RS1/16S50 C 229 C CAR68M50LL R 51 74 RS1/16S50 C 233 C CSRCH390J50 R 52 RS1/16S510 C 235 C CKSRYB332K50 R 55 157 RS1/16S751 C 236 C CKSRYB322K25 R 55 167 RS1/16S321 C 237 C CKSRYB223K25 R 55 167 RS1/16S321 R 56 RS1/16S321 R 56 RS1/16S321 R 56 RS1/16S321 R 56 RS1/16S321 R 58 R 58 RS1/16S321 R 58 R 50 RS1/16S321 R 50 RS1/16S321 R 50 RS1/16S321 R 50 RS1/16S321 R 50 RS1/16S321 R 50 RS1/16S321 R 50 RS1/16S321 R 50 RS1/16S321 R 50 RS1/16S321 R 50 RS1/16S321 R 50 RS1/16S321 R 50 RS1/16S321 R 50 RS1/16S321 R 50 RS1/16S321 R 50 RS1/16S321 R 50 RS1/16S321 R 50 RS1/16S222 R 50 RS1/1					
C 229 C CARSMBOLL R 51 74 R51/165292 C 232 C CSRCH390L50 R 52 R51/165352 C 233 C CKSCYB104K25 R 52 R51/165362 C 235 C CKSCYB104K25 R 55 157 R51/165682 C 236 C CKSCYB104K25 R 55 157 R51/165682 R 56 R51/165682 R 56 R51/165302 R 56 R51/165302 R 56 R51/165302 R 57 3 203 R51/165102 R 58 60 R51/165102 R 50 R51/165302 R 50 R51/165202 R 50 R51/165103 R 51 R51 R51 R51 R51 R51 R51 R51 R51 R51					
C 232	C 229		CEAR68M50LL		
C 233					
C 236 CKSRYB223K25 R 55 157 RS1/i55682 R 556 RS1/i55682 R 557 3 203 RS1/i55682 RS1/i55123 Unit Number : CWE1313 R 60 RS1/i55323 MISCELLANEOUS R 72 RS1/i55391 RS1/i55224 RS1/i5522 RS1/i55224 RS1/i552	C 233		CKSRYB332K50		110 1, 100 1010
C 236	C 235		CKSQYB104K25	R 53	RS1/16S751J
Unit Number : CWE1313 Unit Number : FM/AM Tuner Unit(DEH-P705RDS/EW) MISCELLANEOUS R 72 RS1/I5S321 RR1/I5S321 RR1/I5S331 RR1/ISS331 RR1/ISS3	C 236		CKSRYB223K25		
Unit Number : CWE1313 Unit Name : FM/AM Tuner Unit(DEH-P705RDS/EW) MISCELLANEOUS MISCELLANEOUS MISCELLANEOUS R 72 R 101 R 72 R 101 R 102 R 102 R 101 R 102 R 103 R 581/185321 R 104 R 103 R 581/185822 R 104 R 103 R 581/185822 R 104 R 105 R 104 R 103 R 104 R 105 R 104 R 105 R 105 R 105 R 105 R 106 R 107 R 106 R 107 R 107 R 106 R 107 R 107 R 107 R 108 R 108 R 109 R					
Unit Name : CWE1313 Unit Name : FM/AM Tuner Unit(DEH-P705RDS/EW) R 72 RS1/18S391 RS1/18S391 R 101 RS1/18S224 RS1/18S822 RS1/18S103 RS1/18S103 RS1/18S103 RS1/18S103 RS1/18S103 RS1/18S103 RS1/18S103 RS1/18S103 RS1/18S103 RS1/18S103 RS1/18S103 RS1/18S103 RS1/18S103 RS1/18S103 RS1/18S103 RS1/18S103 RS1/18S103 RS1/18S225 RS1/18S225 RS1/18S225 RS1/18S225 RS1/18S225 RS1/18S225 RS1/18S225 RS1/18S225 RS1/18S225 RS1/18S225 RS1/18S225 RS1/18S225 RS1/18S225 RS1/18S225 RS1/18S225 RS1/18S225 RS1/18S225 RS1/18S225 RS1/18S333 RS1/18S563					
Unit Name : FM/AM Tuner Unit (DEH-P705RDS/EW) MISCELLANEOUS R 101 R51/15S391 MISCELLANEOUS R 102 222 R51/15S322 C 1 PA2021A R 103 R51/15S224 C 2 PA2022A R 104 R 103 R51/15S222 C 1 3SK195 C 2 PA2022A R 104 R 103 R51/15S222 C 3 3 DTC124EU R 153 R51/15S103 C 51 DTC124EU R 155 202 R51/15S103 C 51 DTC124TU R 156 R51/15S103 C 51 DTC124TU R 156 R51/15S103 C 51 DTC124TU R 156 R51/15S103 C 52 2SC4207 R 158 R51/15S183 C 201 2SK435 R 159 216 R51/15S183 C 201 2SK435 R 159 216 R51/15S223 C 2 3 4 KV1410 R 205 R51/15S223 C 2 3 4 KV1410 R 205 R51/15S223 C 2 3 4 KV1410 R 205 R51/15S223 C 2 3 4 KV1410 R 205 R51/15S223 C 2 3 4 KV1410 R 205 R51/15S223 C 2 3 4 KV1410 R 205 R51/15S223 C 2 3 4 KV1410 R 207 R51/15S223 C 2 3 4 KV1410 R 205 R51/15S223 C 2 5 2 Ferri-Inductor LCTBR12K2125 R 214 R51/15S333 C 2 5 1 Inductor LAU4R7K C 2 5 2 Ferri-Inductor LAU4R7K C 2 6 15 1 Ferri-Inductor LAU4R7K C 2 6 15 1 Ferri-Inductor LAU4R7K C 2 6 15 1 R51/16S333 R51/15S333 C 2 6 15 1 Ferri-Inductor LAU4R7K C 2 6 15 1 Ferri-Inductor LAU4R7K C 2 6 15 1 R51/16S473 C 2 7 R51/16S473 C 2 7 R51/16S473 C 2 7 R51/16S473 C 2 8	Unit Number : CWE1313	•			
R 101 RS1/BS224 R 102 222 RS1/BS224 R 103 RS1/BS224 R 103 RS1/BS222 RS1/BS103 R 154 155 202 RS1/BS103 RS1/BS103 R 154 155 202 RS1/BS103	Unit Name : FM/AM T	uner Unit(DEH-P705RDS/EW)			1101,1001200
R 101 RS1/BS224 R 102 222 RS1/BS224 R 103 RS1/BS224 R 103 RS1/BS222 RS1/BS103 RS1/B	•			R 72	RS1/16S391.I
R 102 222 RS1/i5S822 RS1/i5S822 RS1/i5S822 RS1/i5S223 RS1/i5S223 RS1/i5S223 RS1/i5S223 RS1/i5S223 RS1/i5S223 RS1/i5S223 RS1/i5S103 RS1/i5S225	MISCELLANEOUS				
PA2021A					
C 2	C 1		PA2021A		
3SK195					
2 2 202 2 202 2 2 2 2 2 2 2 2 2 2 2 2 2					110 1/ 1900220
DTC124EU R 153 R 154 155 202 RS1/15S103 RS1/15S222 R 204 R 205 RS1/15S223 RS1/15S225 RS1/15S2525 RS1/1				R 151 152	DC1/100272 I
R 154 155 202 R51/15S103 DTC124TU R 156 R51/15S153 2SC4207 R 158 DTC124TU R 156 R51/15S153 2SC4207 R 158 R51/15S183 2SA1586 D 201 D 201 D 202 R51/15S183 R51/15S225 R51/15S183 R51/15S183 R51/15S235 R51/15S333 R51/15S563					
DTC124TU R 156 RS1/15S153. DTC124TU R 156 RS1/15S153. DSC4207 R 158 RS1/15S163. DSC4207 R 159 RS1/15S163. DSC4207 R 159 RS1/15S163. DSC4207 R 159 RS1/15S163. DSC4207 R 159 RS1/15S163. DSC4207 R 159 RS1/15S163. DSC4207 R 159 RS1/15S163. DSC4207 R 158 R			01012420		
252 252 252 4 252 252 252 5 Ferri-Inductor LAU150K R 215 216 220 201 1 202 201 1 202 202) F1		DTC124TH		
2 53 2 254 1586 2 201 201 258 435 R 159 216 RS1/15 \$103. 1					
2 201 201 25K435 R 159 216 RS1/15S103 1SV172 R 204 213 RS1/15S222 R 205 RS1/15S223 0 2 3 4 KV1410 R 207 RS1/15S233 0 6 151 201 202 MA151WK R 208 RS1/15S752 0 6 151 201 202 MA157 0 203 SVC203CP R 209 RS1/15S333 0 1 Inductor LCTBR12K2125 R 214 RS1/15S333 0 2 5 Ferri-Inductor LAU150K R 218 RS1/15S333 0 2 5 Ferri-Inductor LAU2R2K R 220 RS1/15S333 0 2 5 RS1/15S333					U2 1/ (P.2 100)
1SV172 R 204 213 RS1/1s5222. R 205 RS1/1s5222. R 205 RS1/1s5222. R 205 RS1/1s5222. R 205 RS1/1s5222. R 206 RS1/1s5225. R 207 RS1/1s5225. R 208 RS1/1s5752. D 6 151 201 202 MA157 D 203 SVC203CP R 209 RS1/1s5333. R 215 RS1/1s5333. R 215 RS1/1s5333. R 215 RS1/1s5333. R 216 RS1/1s5333. R 217 RS1/1s5333. R 218 RS1/1s5333. R 218 RS1/1s5333. R 218 RS1/1s5333. R 218 RS1/1s5333. R 218 RS1/1s5333. R 218 RS1/1s5333. R 218 RS1/1s5333. R 218 RS1/1s5333. R 218 RS1/1s5333. R 218 RS1/1s5333. R 219 RS1/1s5333. R 210 RS1/1s5333. R 210 RS1/1s5333. R 211 RS1/1s5333. R 213 RS1/1s5333. R 214 RS1/1s5333. R 215 RS1/1s5333. R 216 RS1/1s5333. R 217 RS1/1s5333. R 218 RS1/1s5333. R 218 RS1/1s5333. R 219 RS1/1s5333. R 219 RS1/1s5333. R 219 RS1/1s5333. R 219 RS1/1s5333. R 210 RS1/1s5333.				R 150 216	DC1/10C1021
R 205 RS1/1sS23. RS1/1sS23. RS1/1sS23. RS1/1sS23. RS1/1sS23. RS1/1sS23. RS1/1sS23. RS1/1sS23. RS1/1sS23. RS1/1sS33.					
2 3 4 KV1410 R 207 RS1/18\\$225.	• '		104 172		
MA151WK R 208 RS1/18-S752. MA157 SVC203CP R 209 RS1/18-S822. R 214 RS1/18-S333. R 215 RS1/18-S333. R 215 RS1/18-S333. R 215 RS1/18-S333. R) 2 3 4		KV1410		
MA157 SVC203CP R 209 RS1/16S822.					
SVC203CP				II EVU	NO 1/ 19-0/02J
1				R 209	DC1/1\C020 !
R 215 RS1/1₅S330. 2 52 Ferri-Inductor LAU150K R 218 RS1/1₅S333. 51 Ferri-Inductor LAU2R2K R 220 RS1/1₅S130. 201 Ferri-Inductor LAU4R7K 202 Coil 1mH CTF1026 R 221 RS1/1₅S473. 203 Inductor LAU390K R 223 RS1/1₅S563.		Inductor			
2 52 Ferri-Inductor LAU150K R 218 RS1/1\s333. 51 Ferri-Inductor LAU2R2K R 220 RS1/1\s333. 201 Ferri-Inductor LAU4R7K 202 Coil 1mH CTF1026 R 221 RS1/1\s3473. 203 Inductor LAU390K R 223 RS1/1\s563. 204 Ferri-Inductor LAU680K	. 1	madetoi	LOTDITIZAZ 120		
_ 51	2 52	Ferri-Inductor	1 A11150K		
. 201 Ferri-Inductor LAU4R7K . 202 Coil 1mH CTF1026 R 221 RS1/1;≤343. . 203 Inductor LAU390K R 223 RS1/1;≤563.					
202 Coil 1mH CTF1026 R 221 RS1/1;≤473. 203 Inductor LAU390K R 223 RS1/1;≤563. 204 Ferri-Inductor LAU680K				11 440	no (/ (i) ⊃ 100J
. 203 Inductor LAU390K R 223 RS1/1;≤563. . 204 Ferri-Inductor LAU680K				R 221	DC1/1/C4701
L 204 Ferri-Inductor LAU680K					
			J00011	11 223	uo I/ I)⇒503J
	204	Ferri-Inductor	LAU680K		
EN I GITTHUUGIUT LAUGUR		Ferri-Inductor	LAU330K		

=====Circuit Symbol & No. Part Name=====	Part No.	=====Circuit Symbol & No. Part Name===== P	Part No.
CAPACITORS			A3027A
C 1 54 C 2	CCSRCH220J50 CCSRCH390J50	IC 701 P	MC14052BF PD4481A PA0051AM
C 3 102 103 154 163 203 210 C 4 12 C 5 53	CKSQYB473K16 CCSRCH070D50 CCSRCH270J50	IC 952	ML001A AJ001A
C 6 C 7	CKSRYB222K50 CCSRCH040C50	Q 453 454 C C Q 455 456 457 458 C	PA2023A DTC343TK DTC143TK
C 8 105 C 9 16 C 10	CKSRYB222K50 CCSRCH470J50 CCSRCH090D50	Q 501 2	JN2211 2SC3098
C 11	CKSRYB223K25	Q 503 506 2	2SC3295 2SK208
C 13 C 14	CCSRCH070D50 CKSQYB103K25		2SC2712 UN2211
C 17	CCSRCH100D50	0. 633	DTC314TK DTA124EK DTC314TK
C 18 C 19 20 21 52 62 71 74 201 207 C 23	CCSRCH080D50 CKSRYB103K50 CEA3R3M50LL	Q 651 781	2SD601A UN2111
C 24 29 73 106 213 C 25	CKSRYB223K25 CKSRYB682K50		DTC124EK 2SA1162
C 26 28 231 C 51 223	CEA101M16LL CKSRYB103K50	Q 705	UN2211 2SB1238
C 56 162 211 C 57 64 66 237	CEA010M50LL CCSRCH101J50		2SA1162
C 58	CKSRYB153K25 CEAR47M50LL	Q 955	2SD2396 2SD1859 MA151K-MH
C 60 C 61 C 63	CEAR22M50LL CKSQYB104K25	D 501 502	MA3027H MA151WK-MT
C 65 C 104	CEA0R1M50LL CEA4R7M35LL	D 632 958	MA151WA-MN MA151WK-MT
C 152 153 C 155 C 156	CKSRYB223K25 CEAR15M50LL CKSQYB563K16	D 703	MA3180M MA151K-MH MA153-MC
C 158 212 C 159	CEA100M16LL CCSRCH331J50	D 704 701 000	1SS133 ERA15-02VH
C 160 C 161	CSZS010M16 CKSQYB104K25	D 959	HZS9LC3 HZS6LB1
C 202 C 204	CKSRYB332K50 CCSRCH120J50		LAU100K CTF-157
C 205 C 206 221	CCSRCH560J50 CCSRCH680J50	L 502 701 Ferri-Inductor IB 551 552 Diode Array	LAU2R2K CWW1338
C 208 C 209 215 228	CEA470M16LL CKSRYB103K50	2.70	CSS1011 CSS1303
C 214 230 C 216	CKSRYB472K50 CCSRCH100D50	EF 951	CSG1020 CCG1003
C 217 C 218 234	CCSRCH221J50 CEA220M16LL CCSRCH150J50	BZ 701 Buzzer	CCG-070 CPV1011 CWE1312
C 222 C 224 C 226	CCSRCH181J50 CEA4R7M35LL	RESISTORS	
C 229	CEAR68M50LL CCSRCH390J50	R 426 427 428 429	RS1/10S163J
C 232 C 233 C 235	CKSRYB332K50 CKSQYB104K25	R 430 431 R 432 433	RS1/10S623J RS1/10S513J
C 236	CKSRYB223K25	R 434 435 450 499 500 511 523 526 527 537 R 436 437 654 655 656 657 658 659 739	RS1/10S472J RS1/10S104J
Unit Number : CWX1619(DEH-P705/UC) : CWX1726(DEH-P65/UC)		R 442 443	RS1/10S303J RS1/10S331J RS1/10S2733
Unit Name : Tuner Amp Unit MISCELLANEOUS		R 444 445 451 452 453 454 R 446 447 R 448 449	RS1/10S272J RS1/10S103J RS1/10S273J
IC 451	XRA3131FS	R 457 458	RS1/10S163J
IC 452 IC 453 IC 454 631 641 651	TA2050S PM0004AM1 NJM4558MD LC72140M	R 461 462 R 463 464 479 480 510 513 517 518 R 465 466 507 647 648 726 763 R 467 468	RS1/10S181J RS1/10S102J RS1/10S223J RS1/10S153J
IC 501	CO1 E 130111		

==	===C	ircuit	Sym			art	Name	==== 	=		Part No.	==	:===C	ircuit	Sym	8 lod	No.	Part	Nam	e====		Part No.
R R R R	471 473 475	470 472 474 476 478									RS1/10S163J RS1/10S222J RS1/10S303J RS1/10S153J RS1/10S113J	R R R	781									RS1/10S473J RS1/10S103J RS1/10S0R0J RS1/10S164J RS1/10S683J
R R R R	481 483 484 488 493	485 489	486	492 487 496	509		568	570			RS1/10S561J RS1/10S562J RS1/10S103J RS1/10S153J RS1/10S0R0J	R R	957 958 959 962 964									RS1/10S134J RS1/10S184J RS1/10S472J RD1/4PS221JL RS1/10S472J
R R R R	497 501 502 503 504	573	64 6								RS1/10S222J RS1/10S101J RS1/10S332J RS1/10S821J RS1/10S331J	R R	965 966 969 APACI	TORS	6							RS1/10S102J RS1/10S104J RD1/4PS220JŁ
R R R R	505 506 508 512 519	567	716	968			532 706			736	RS1/10S680J RS1/10S222J RS1/10S221J RS1/10S152J RS1/10S102J	C C	441 442	434	435	436	437	43	8 439	440		CKSQYB102K50 CKSQYB822K50 CEA470M6R3LL CEAR33M50LL CKSQYB472K50
R R R R	522 525 528 529 538			536 558			734 722	727			RS1/10S123J RS1/10S222J RS1/10S473J RS1/10S822J RS1/10S472J	00000	449 451 453	447 514 452 454 456		457	458	46	3 464	473	475	CEA100M16LL CEA4R7M35LL CEA010M50LL CEA010M50LL CEA4R7M35LL
R R R R	539 540	758 552 751	955 752	753	754	755					RS 1/10S563J RS 1/10S330J RS 1/10S2R2J RS 1/10S472J RS 1/10S2R2J	C C C C	459 465 467	460 466								CEA0 10M50LL CCSQCH270J50 CCSQCH151J50 CKSQYB221K50 CEA2R2M50LL
R R R R	633	632	644								RS1/10S103J RS1/10S153J RS1/10S821J RS1/10S223J RS1/10S103J	0000	472 476 477 479	478			570	63!	5 636	645	646	CKSQYB103K50 CEA100M16LL CKSQYB333K50 CKSQYB683K16 CKSQYB682K50
R R R R	639 641 643 651 660	642	883	884							RS1/10S0R0J RS1/10S103J RS1/10S153J RS1/10S243J RS1/10S105J	C C	487 491 493	486 488 495 496								CKSQYB681K50 CKSYB224K16 CEA101M10LL CKSYF105Z16 CEA010M50LL
R R R R	661 663 664 701 702										RS1/10S103J RS1/10S513J RS1/10S333J RS1/10S620J RS1/10S101J	C C	498 499 502 503 506			568 511	704		I ′16∨			CKSYB224K16 CKSQYB104K16 CKSQYB103K50 CCSQCH101J50 CCH1005
R R R R	704 707 708 711 715										RS1/8S103J RS1/10S823J RS1/10S183J RS1/10S473J RS1/10S822J	C C C	508 510 512 513 517				0.	047 μ	·F			CCG1008 CFTNA474J50 CKSQ YB223K50 CCSQ CH101K50 CCSQ CH221J50
R R R R	717 720 721 724 728	718 956	719	963							RS1/10S221J RS1/10S683J RS1/10S392J RS1/10S563J RS1/10S683J	C C C		522 552			658	701	702	707		CCSQ CH120J50 CKSQ CH101K50 CKSQ YB473K16 CEA2ZOM6R3LL CKSQ YB102K50
R R R R	730	731 782		961			_				RS1/10S473J RS1/10S682J RS1/10S473J RS1/10S333J RS1/10S100J	C C C	569 571 572				33	00 μ	F/16V F/16V	566		CKSQYB104K16 CEA330M16LL CCH1150 CCH1149 CCSQCH121J50
R R R R	759 760 764 771 774	761 762	772	773							RS1/10S472J RD1/4PS272JL RS1/10S222J RS1/10S183J RS1/10S102J	C C C	652	638 640 709	710	711	951	957	i			CKS0YB221K50 CKS0YB103K25 CKS0YB273K50 CKS0YB473K50 CKS0YB223K50

====Circuit Symbol	& No. Part Name		Part No.	====Circuit Symbol & No. Part Name====	Part No.
C 655 C 656 C 657 C 659 703 C 708		(CKSQYB153K50 CKSQYB273K50 CKSQYB103K50 CCSQCH330J50 CCSQCH120J50	Unit Number : CWX1616 Unit Name : Tuner Amp Unit(DEH-P705RDS/EW) MISCELLANEOUS	
C 712 C 713 C 751 C 752 753 754 C 952		(CKSQYB104K16 CKSYB224K16 CKSQYB103K25 CKSQYB104K16 CKSQYB472K50	IC 451 IC 452 IC 453 IC 454 631 641 651 IC 501	XRA3131FS TA2050S PM0004AM1 NJM4558MD LC72140M
C 953 C 954 C 955 C 958 C 959	470 μ F/16V 330 μ F/10V		CKSQYB473K50 CKSQYB103K25 CEAR22M50LL CCH-114 CCH1181	IC 551 IC 652 IC 701 IC 702 IC 801	PA3027A MC14052BF PD4481A PA0051AM PMR001A
C 960 962 C 961 C 963 C 964 C 966		1	CEA470M10LL CEA101M10LL CEA220M16LL CKSQYB103K50 CEA2R2M50LL	IC 802 IC 803 IC 951 IC 952 IC 953	PD0191A SC14SU69F PML001A PAJ001A PA2023A
	DEH-P705/UC	DEH-P703/ES	DEH-P605/UC	Q 453 454 Q 455 456 457 458	DTC343TK DTC143TK
	CWX1619	CWX1620	CWX1615	Q 459 460 705 954	UN2211 2SC3098
IC631	Part No. NJM4558MD	Part No. NJM4558MD	Part No.	Q 501 Q 502	2SC3295
IC651 IC652	NJM4558MD MC14052BF			Q 503 506	2SK208
Q631,632	DTC314TK	DTC314TK		Q 504 507 508 801 802	2SC2712
Q651	2SD601A			Q 551 552 553 704 752 754 756 Q 631 632	UN2211 DTC314TK
R631,632	RS1/10S153J	RS1/10S153J		Q 633	DTA124EK
R633,634	RS1/10S821J	RS1/10S821J		Q 641 642	DTC314TK
R635,636 R637,638	RS1/10S223J RS1/10S103J	RS1/10S223J RS1/10S103J		Q 651	2SD601A
R639,640	RS1/10S0R0J	RS1/10S0R0J		Q 701 953	UN2111
2040		DC4/40C0D0 I	DC1/10C0D0 I	Q 702 803 Q 703 755	DTC124EK 2SA1162
R649 R650		RS1/10S0R0J RS1/10S0R0J	RS1/10S0R0J RS1/10S0R0J	Q 703 755	23A1102
R651,652	RS1/10S243J	••••		Q 751 753	2SB1238
R654,655,656	RS1/10S104J			Q 771 Q 781	2SA1162 2SD601A
R657,658,659	RS1/10S104J			Q 804	2SC4944
R660	RS1/10S105J			Q 805	2SA1162
R661,662 R663	RS1/10S103J RS1/10S513J			Q 952	2SD2396
R664	RS1/10S333J			Q 955	2SD1859
R665	RS1/10S102J	••••		D 451 D 501 502	MA151K-MH MA3027H
R707	RS1/10S823J	RS1/10S563J	RS1/10S823J	D 501 502 D 503 771 955	MA151WK-MT
R708	RS1/10S183J	RS1/10S433J	RS1/10S183J		144 amala/a 8451
R711	RS1/10S473J	RS1/10S303J RS1/10S683J	RS1/10S433J RS1/10S563J	D 631 D 632 958	MA151WA-MN MA151WK-MT
R712 R713	RS1/10S823J		RS1/10S823J	D 701 702	MA3180M
	DO4/4004001	DC4/40C4701	DC1/10C1021	D 703 802 D 751 752 753	MA151K-MH MA153-MC
R714 R883,884	RS1/10S183J RS1/10S0R0J	RS1/10S473J RS1/10S0R0J	RS1/10S183J	U 101 102 100	1417-102-1410
R885,886	RS1/10S0R0J	RS1/10S0R0J		D 754 781 953	1SS133
C633,634	CCSQCH121J50	CCSQCH121J50		D 801 D 951 952 954 960 961	MA3047M ERA15-02VH
C635,636	CEA100M16LL	CEA100M16LL		D 956	HZS9LC3
C637,638	CKSQYB221K50			D 959	HZS6LB1
C652,656 C653	CKSQYB273K50 CKSQYB473K50			L 451 Ferri-Inductor	LAU100K
				L 501 Ferri-Inductor	CTF-157
C654 C655	CKSQYB223K50			L 502 701 Ferri-Inductor L 801 802 Ferri-Inductor	LAU2R2K LAU101K
C657	CKSQYB153K50 CKSQYB103K50			IB 551 552 Diode Array	CWW1338
C658	CKSQYB102K50			V E04	0001011
C659	CCSQCH330J50		••••	X 501 Crystal Resonator X 701 Resonator	CSS1011 CSS1303
				X 801 Crystal Resonator	CSS1056
				S 701 Switch(Reset) VR 801 Semi-fixed 2.2kΩ(B)	CSG1020 CCP1123
				vn ovi Seini-lixed 2.2KII(B)	COFFIZS

DEH-P705,P65,P605,P703,P705RDS

==:	===(Circui	t Syn	bol 8	k No.	Part	Nam	e===	== 	.	Part No.	=	====	Circui	t Syn	nbol 8	k No.		Nan	ne===	==		Part No.
BZ TU	951 701 N70 SIS1	l				uzzer M/AÑ		er Un	it		CCG1003 CPV1011 CWE1313	R R R	70 70: 70: 71: 71:	2 703 4 1	3								RS1/10S620J RS1/10S101J RS1/8S103J RS1/10S473J RS1/10S822J
R R R R	430	431 433 435	450	499	500						RS1/10S163J RS1/10S623J RS1/10S513J RS1/10S472J S RS1/10S104J	R R R		1		963	3						R\$1/10\$221J R\$1/10\$683J R\$1/10\$392J R\$1/10\$563J R\$1/10\$683J
R R R R	438 442 444 446 448	443 445 447		441	459	460)				RS1/10S303J RS1/10S331J RS1/10S272J RS1/10S103J RS1/10S273J	R R R	729 730 737 738 757	782 782		840		844	1 84	5 960	961		RS1/10S473J RS1/10S682J RS1/10S473J RS1/10S333J RS1/10S100J
R R		458 462	479	480	510 648						RS1/10S0R0J RS1/10S163J RS1/10S181J RS1/10S102J RS1/10S223J	R	759 760 764 771 774	762 820		773							RS1/10S472J RD1/4PS272JL RS1/10S222J RS1/10S183J RS1/10S102J
R R R	469 471	472 474									RS1/10S153J RS1/10S163J RS1/10S222J RS1/10S303J RS1/10S153J	R R R R	781 801 806	807	808	809 832	811 833	812 835	813 846	8 814 6 966	818	965	RSI/10S473J RSI/10S103J RDI/4PS101JL RSI/10S102J RSI/10S104J
R R R	481	478 482 490 485 489	491 486	492 487	967 509	514	568	570			RS1/10S113J RS1/10S561J RS1/10S562J RS1/10S103J RS1/10S153J	R R R R	821 822 824 838 839	825	826	827	834	836	837	,			RS1/10S273J RS1/10S333J RS1/10S681J RS1/10S105J RS1/10S332J
R : R :	497 501 502			496	543	974					RS1/10S0R0J RS1/10S222J RS1/10S101J RS1/10S332J RS1/10S821J	R R R R	952 953 957 958	886	971								RS1/10S0R0J RS1/10S164J RS1/10S683J RS1/10S134J RS1/10S184J
R ! R !	508		516 716		530	531	532	533	725		RS1/10S331J RS1/10S680J RS1/10S222J RS1/10S221J RS1/10S152J	R R R R	959 962 964 969 PACI	972 TORS									RS1/10S472J RD1/4PS221JL RS1/10S472J RD1/4PS220JL
R S R S	522 525 528				705 708						RS1/10S102J RS1/10S123J RS1/10S222J RS1/10S473J RS1/10S822J	C C C	429 431 433 441 442	432 434	435	436	437	438	439	440			CKSQYB102K50 CCSQCH102J50 CKSQYB822K50 CEA+70M6R3LL CEAR33M50LL
R	539 540 544	556 758 552		558	569	571	722	727	803		RS1/10S472J RS1/10S563J RS1/10S330J RS1/10S102J RS1/10S2R2J	C C C	444 446 449 450 451	447 514	448 706	457	458	463	464	473	475		CKSQYB472K50 CEA100M16LL CEA4R7M35LL CKSYB224K16 CEA110M50LL
R	559 572 531		561		754 563			566			RS1/10S472J RS1/10S2R2J RS1/10S103J RS1/10S153J RS1/10S821J	c c c	453 455 459 465 467	456 460 466	461	462						(CEA(10M50LL CEA(R7M35LL CEA(10M50LL CCSQCH270J50 CCSQCH151J50
₹ 6 ₹ 6	37 39	636 638 640 642	954 883	884						 	RS 1/10S223J RS 1/10S103J RS 1/10S0R0J RS 1/10S103J RS 1/10S153J	C C	471 472	470 489 478			570	635	636	645	646	(CKSQYB221K50 CEAZR2M50LL CKSQYB103K50 CEA1D0M16LL CKSQYB333K50
? 6 ? 6	63	652 662 804	805							1 1 1	RS 1/10S243J RS 1/10S105J RS 1/10S103J RS 1/10S513J RS 1/10S333J	CCC		482 486		484						0	CKS(YB683K16 CKS(YB682K50 CKS(YB681K50 CKS(YB224K16 CEAID1M10LL

====Circuit Symbol & No. Part Name=====	Part No.	====Circuit Symbol & No. Part Name=====	Part No.
C 493 495 497 C 494 496 C 498 C 499 500 567 568 965 C 502 505 507 511 704 781 803 812 816 81	CKSYF105Z16 CEA010M50LL CKSYB224K16 CKSQYB104K16 7 CKSQYB103K50	D 904 D 918	MA151WK-MT PRPY1201W LCTB1R0K3216 CSS1084 CSG1041
C 503 504 705 C 506 4.7 μ F/16V C 508 0.047 μ F C 510 C 512 516 811 819	CCSQCH101J50 CCH1005 CCG1008 CFTNA474J50 CKSQYB223K50	S 905 906 907 908 909 910 911 912 913 914 S 915 916 917 918 919 920 921 922 Switch IL 901 902 906 908 910 Lamp(DEH-P705/UC,P703/ES IL 902 906 908 910 Lamp(DEH-P705RDS/EW)	CSG1041 CEL1297
C 513 515 C 517 C 518 519 C 520 522 C 521	CCSQCH101K50 CCSQCH221J50 CCSQCH120J50 CKSQCH101K50 CKSQYB473K16	IL 909 911	CEL1297 CAW1222 CAW1221
C 551 552 553 554 C 555 556 557 558 658 701 702 707 813 C 559 560 561 562 563 564 565 566 C 569 C 571 3300 μ F/16V	CEA220M6R3LL CKSQYB102K50 CKSQYB104K16 CEA330M16LL CCH1150	R 901 902 R 904 905 908 909 R 906 907 910 911 R 912 940 R 916 917	RS1/8S222J RS1/8S332J RS1/8S472J RS1/10S102J RS1/4S821J
C 572 956 1000 μ F/16V C 633 634 643 644 C 637 638 C 639 640 C 652	CCH1149 CCSQCH121J50 CKSQYB221K50 CKSQYB103K25 CKSQYB273K50	R 918 919 R 920 R 921 R 922 R 923 924 925 926 927 928 929 930 931 932	RS1/8S471J RS1/10S2R2J RS1/8S121J RS1/10S473J RS1/10S471J
C 653 709 710 711 805 951 957 C 654 C 655 C 656 C 657	CKSQYB473K50 CKSQYB223K50 CKSQYB153K50 CKSQYB273K50 CKSQYB103K50	R 934 R 938 CAPACITORS	RS1/8S183J RS1/10S562J
C 659 703 C 708 C 712 C 713 C 751	CCSQCH330J50 CCSQCH270J50 CKSQYB104K16 CKSYB224K16 CKSQYB103K25	C 901 902 903 906 909 C 904 905 C 907 C 908	CKSQYB103K25 CEV100M16 CKSQYB102K50 CKSQYB104K16
C 752 753 754 C 801 814 C 802 C 804 C 806 815 952	CKSQYB104K16 CEA100M16LL CEA1R5M50LL CEAR33M50LL CKSQYB472K50	DEH-P705/UC DEH-P605/UC DEH-P703/ES DEH-P65/UC CWX1626 CWX1623 Part No. Part No. IC902 RS-30	
C 807 808 C 809 C 810 C 818 964 C 820 821	CSZS010M16 CSZS3R3M10 CKSQYB103K50 CKSQYB103K50 CCSQCH180J50	Unit Number : CWX1693 Unit Name : Control Unit MISCELLANEOUS	
C 823 C 953 C 954 C 955 C 958 470 \(\mu \) F/16V	CEAR47M50LL CKSQYB473K50 CKSQYB103K25 CEAR22M50LL CCH-114	IC 351 IC 601 IC 602 IC 651 IC 653	UPC1347GS UPD6374AGH XRA4558F PA3026 XRA4558F
C 959 330 μ F/10V C 960 962 C 961 C 963 C 966	CCH1181 CEA470M10LL CEA101M10LL CEA220M16LL CEA2R2M50LL	IC 701 IC 702 IC 703 IC 751 IC 752	UPD6375GC TC9237F TA2009F PD5256A MB3854PF
C 969 970 Unit Number: CWX1626(DEH-P705/UC,P703/ES): CWX1624(DEH-P705RDS/EW)	CKSYB224K16	Q 351 Q 601 Q 651 652 Q 654 Q 701 702	2SB1260 2SB709A 2SB1184F5 DTC114EK 2SD1781K
Unit Name : Key Board Unit MISCELLANEOUS IC 901 IC 902 Q 901 902 903 904 Q 905 906 907	PD6122A RS-30 2SB1132 LIN2211	Q 704 Q 752 753 Q 754 Q 755 Q 756	2SB709A DTA114EK DTC114EK 2SD1760F5 2SD1030
		Q 756	2SD1030

DEH-P705,P65,P605,P703,P705RDS

====Circuit Symbol & No. Part Nam	e==== Part No.	====Circuit Symbol & No. Part Name=====	Part No.
651 652	SC016-2	R 766	RS1/16S473J
701	MA151WA-MN	R 767 768	RS1/16S224J
757	HZM6R8NB2	R 769 770	RS1/16S104J
758	MA151A-MA	R 774	RS1/16S103J
701 Inductor	LCTBR39K2125	R 775	RS1/16S104J
H 752 Thermistor	CCX1015	R 778	RS1/16S103J
701 Crystal Reso	onator CSS1067	R 780	RS1/16S104J
751 Ceramic Res	sonator CSS1084	R 781 782	RS1/16S362J
R 351 Semi-fixed 2	22kΩ(B) CCP1183	R 783 784 785 786 787	RS1/16S681J
R 352 355 356 Semi-fixed		R 788	RS1/16S102J
R 353 354 Semi-fixed 2	2.2kΩ (B) CCP1177	R 791 792	RS1/8S391J
Checker Chi	CKF1025	R 794	RS1/16S151J
	•	R 795	RS1/16S0R0J
-corona		R 799	RS1/10S1R5J
ESISTORS		CAPACITORS	
351	RS1/8S100J		
353	RS1/16S623J	C 351	CEV470M16
354 757 779	RS1/16S473J	C 352	CKSQYB104K
355	RS1/16S122J	C 353	CEV101M6R3
356	RS 1/16S683J	C 354 355	
	N3 I/ 1030033		CSZSR4R7M1
357	DC4/16C600 I	C 357 359 366	CKSRYB102K
	RS1/16S683J	C 250	A
358 359	RS1/16S332J	C 358	CK\$RYB331K
360	RS1/16S684J	C 360	CKSRYB271K
361	RS1/16S153J	C 361	CCSRCH220J
362	RS1/8S120J	C 601 C 603	CKSRYB222K CKSRYB331K
364	RS1/16S102J		CICOTTIDOSTI
369	RS1/16S103J	C 604 606 652 703 704	CKSYB224K1
375 377 713	RS1/16S102J	C 605	CKSYB103K2
379	RS1/16S513J	C 607 654 759	CKSYB224K1
380	RS1/16S104J	C 608	CSZS010M16
•		C 609 610 761	CEV100M16
381 382	RS1/16S133J		CLITOOMIC
601 602 603 604 605 607 610		C 611 701 707 710	CKSRYB103K
606	RS1/16S224J	C 653 220 μ F/10V	CCH1148
609 611 612 613 665	RS1/16S102J	C 655	
614 615	RS1/16S472J		CKSRYB391K
014 013	113 1/1034/23	C 658 220 μ F/10V C 665	CCH1148 CEV101M10
616	RS1/16S102J		
617	RS1/8S0R0J	C 666	CKSQYB102K
618	RS1/8S103J	C 670	CKSQYB272K
619 620	RS1/8S102J	C 671	CKSRYB103K
652 654	RS1/16S162J	C 672	CKSQYB333K
		C 702	CEVI 01M6R3
6 55 6 56	RS1/16S183J	C 705 706	000000110000
	RS1/16S362J	C 705 706	CCSRCH090D
657 663	RS1/16S163J	C 712	CEV220M6R3
663	RS1/10S181J	C 716	CEVI 00M16
664 753 755	RS1/16S103J	C 722 723	CEVIR7M35
000 707	BB4445	C 724	CCSRCH151J
669 797	RS1/16S103J		
670	RS1/10S151J	C 726	CCSRCH100D
676	RS1/16S683J	C 727 728	CKSRYB103K
679 684	RS1/16S102J	C 751 752 753 754 755	CCSRCH221J
701 702 711 712 764	RS1/16S102J	C 756	CKSRYB472K
704 705	RS1/16S162J		
707 708	RS1/16S223J	Unit Number :	
709 710 729 731	RS1/16S0R0J	Unit Name : Switch P.C.Board	
717	RS1/16S301J		
721	RS1/16S472J	D 1 2 3 4 LED	BR43€1F
		M 1 Motor(Spindle)	CXM1058
722	RS1/16S162J	M 2 Motor Unit(Carriage)	CXA#649
724	RS1/10S1R0J	M 3 Motor Unit(Loading)	CXA\$-049 CXA\$-267
725	RS 1/16S472J	S 1 2 Switch(Home,Clamp)	
730 733 738 798	RS 1/1654723	2 Switch(nome,Clamp)	CSNI 012
751 733 736 796	RS1/1050R03		
		Unit Number :	
752 754 776	RS1/16S183J RS1/16S472J	Unit Name : Detector P.C.Board	
		D 1 2 2 4 DL-1	DT4
756 771 772 773	RS1/16S222J	P 1 2 3 4 Photo Transistor	PT48 © 10
758	RS1/16S224J		
765 793	RS1/16S102J	Affician Hamania Port 11 to	
		Miscellaneous Parts List	
		But the tr	001: 0
		PU Unit	CGY 026

8. EXPLODED VIEW PARTS LIST

- NOTE:

 Parts marked by "* "are generally unavailable because they are not in our Master Spare Parts List."
- Parts marked by "o" are not always kept in stock. Their delivery time may be longer than usual or they may be
- Chassis(Exploded View:Page 2-5)
- Parts List

Mark No.	Description	Part No.	Mark No.	Description	Part No.
1	Screw	BSZ26P050FMC	41	Battery Cover	CNS2850
2	Screw	BSZ26P080FMC	42	CD Mechanism Module	CXK2544
	Screw	BSZ26P120FMC	43	Screw	PSS26P080FZK
	Screw	BSZ30P060FMC	44	Screw	CBA1284
	Screw	BSZ30P120FMC	45	Handle	CNC4947
_		0054004	40	Deset	CNIV/4000
	Cord Assy	CDE4091		Bush	CNV1009
	Fuse	CEK1136		Detach Grille Assy	CXA5739
	Сар	CNS1472		Screw	BPZ20P100FZK
	Resistor	RS1/2P102JL		Button	CAC3675
10	Case	CNB1750	50	Button	CAC3676
. 11	Holder	CNC3850	51	Button	CAC3681
	Holder	CNC4946	52	Button	CAC3682
	Earth Plate	CNC5130	53	Button	CAC3683
	Insulator	CNM3972		Button	CAC3684
	Cushion	CNM3886		Button	CAC3685
40	C	CNS2269	56	Button	CAC3686
	Case				CBH1407
	Сар	CNV2680		Spring	CNM3727
	Holder	CNV3620		Cushion	
	Tuner Amp Unit	CWX1616		Cover	CNM3752
20	Cord	CDE4097	. 60	Cover	CNS2751
21	Antenna Cable	CDH1146	61	Lens	CNV3615
22	Plug(CN631)	CKS1242	62	Lens	CNV3616
	Connector(CN951)	CKM1091		Grille Unit	CXA5692
	Connector(CN751)	CKS2212	64	Button Unit	CXA6162
	Connector(CN702)	CKS2480	65	Button Unit	CXA6163
26	Holder	CNC4881	66	Key Board Unit	CWX1624
	Holder	CNC4882		Connector(CN901)	CKS2733
	Bracket	CNC4940		Holder	CNC4942
	Holder	CNC4949		Lens	CNV3617
	Holder	CNC5013		Holder	CNV3618
	0	CNINADDAD	71	Connector	CNV3642
	Spacer	CNM3343			
	Insulator	CNM3825		LCD(LCD901)	CAW1221
	Heat Sink	CNR1307		Screw	BPZ20P060FMC
	Connector(CN701)	CKS2149		Spring	CBH1484
35	FM/AM Tuner Unit	CWE1313	. 75	Connector	CKS2780
36	Antenna Jack	CKX1043		Holder	CNC4943
37	Holder	CNC4880	77	' Holder	CNC4944
	Connector Unit	CXA4720	78	P.C.Board	CNP3473
	Chassis Unit	CXA5701	79	Arm	CNV3696
	Remote Control Assy	CXA5961	80	Arm	CNV3697

Mark No.	Description	Part No.
81	Eject Mechanism Assy	CXA5110
82	Panel Unit	CXA5698
83	Screw	PMS20P030FZK
84	IC(IC551)	PA3027A
85	IC(IC953)	PA2023A
86	Transistor(Q952)	2SD2396
87-91	••••	
92	Sheet	CNM3984
93	Earth Plate	CNC5346
94	Cushion	CNM3886
95	Holder	CNC5347
96	Screw	BSZ30P060FMC

●The DEH-P705/UC,DEH-P703/ES,DEH-P605/UC and DEH-P65/UC Parts Lists enumerate the parts which differ from those enumerated in the DEH-P705RDS/EW Parts List only.

The parts other than those enumerated in the former are identical with those in the latter, to which you are requested to refer, accordingly.

The DEH-P705RDS/EW Parts List is given on page 1-54.

		DEH-	DEH-	DEH-	DEH-	DEH-
		P705RDS/EW	P705/UC	P703/ES	P605/UC	P65/UC
No.	Description	Part No.	Part No.	Part No.	Part No.	Part No.
17	Сар	CNV2680	CNV2680	CNV2680		CNV2680
19	Tuner Amp Unit	CWX1616	CWX1619	CWX1620	CWX1615	CWX1726
20	Cord	CDE4097	CDE4119	CDE4120		CDE4303
22	Plug(CN631)	CKS1242	CKS1242	CKS1242		CKS1242
26	Holder	CNC4881		••••		••••
27	Holder	CNC4882				
29	Holder	CNC4949	CNC4949	CNC4949	CNC4951	CNC4949
32	Insulator	CNM3825				
35	FM/AM Tuner Unit	CWE1313	CWE1312	CWE1312	CWE1312	CWE1312
39	Chassis Unit	CXA5701	CXA5700	CXA5700	CXA5700	CXA5700
40	Remote Control Assy	CXA5961	CXA5961	CYAFOC1	1	
40	Battery Cover	CNS2850	CNS2850	CXA5961		• • • • •
63	Grille Unit	CXA5692	CXA5694	CNS2850		
66	Key Board Unit	CWX1624	CWX1626	CXA5695 CWX1626	CXA5696	CXA5693
72	LCD(LCD901)	CAW1221	CAW1222		CWX1623	CWX1623
12	LCD(LCD301)	CAVVIZZI	CAVV 1222	CAW1222	CAW1222	CAW1222
82	Panel Unit	CXA5698	CXA6148	CXA6148	CXA5806	CXA5806
87	Сар	••••	••••		CNV2680	
88	Cord	••••	••••		CDE4121	
89	Plug(CN631)	••••	••••		CKS1238	
90	Panel	••••	CNS2906	CNS2906	CNS2786	CNS2786
0.0	0		00.1.00-			
91	Spring		CBH-865	CBH-865	CBH-865	CBH-865
93	Earth Plate	CNC5346	••••	••••	••••	••••
94	Cushion	CNM3886	••••	••••	••••	•••••
95	Holder	CNC5347	••••	••••	••••	••••
96	Screw	BSZ30P060FMC	••••		••••	• • • • •

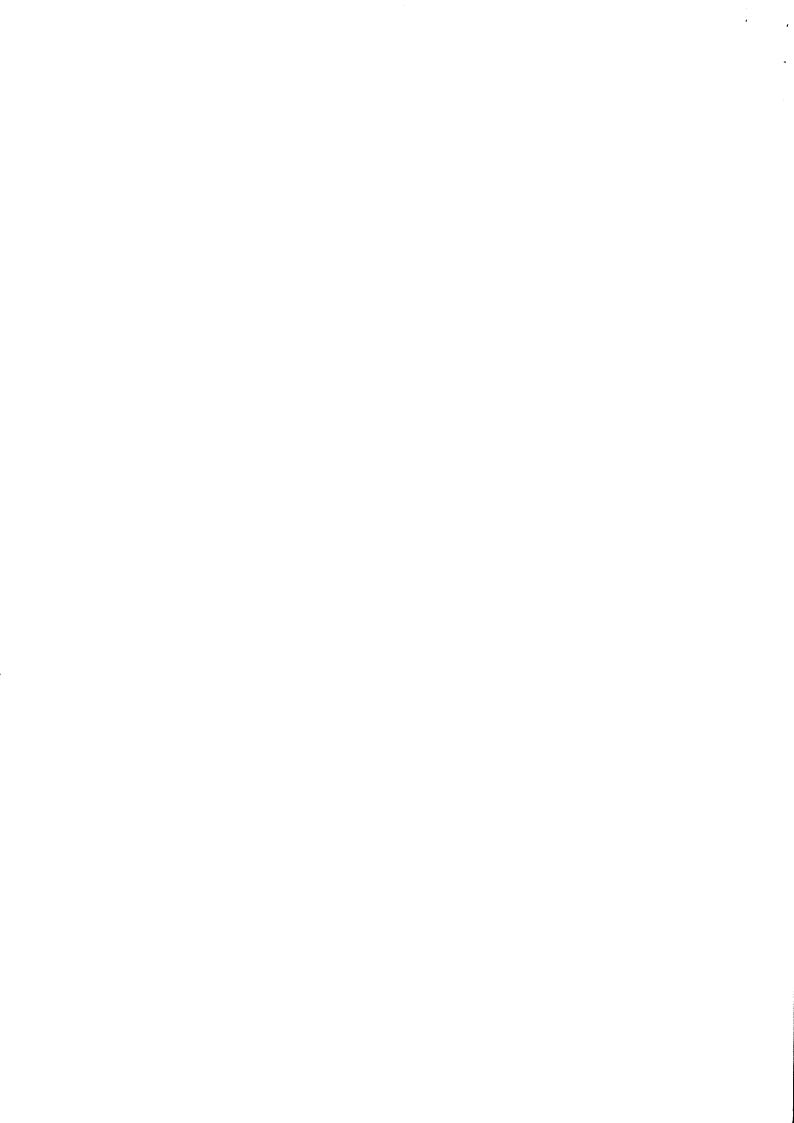
● CD Mechanism Module(Exploded View:Page 2-7)

Parts List

rk No. D	escription	Part No.	Mark No. Description	Part No.
1 D	amper	CNV2882	46 Gear Unit	····
	lolder	CNV2863	47 Connector(4P)	CXA4265
	crew	CBA1004	48 Switch(\$1,2)	CKS2088
4 S	pring	CBH1417	49 Screw	CSN1012
5 F	rame	CNC3816	50 LED(D1-4)	CBA1077
	• •		00 228/81-4/	BR4361F
	uide rame	CNV2891	51 Gathering P.C.Boa	rd CNX1956
	crew	CNC4783	52 Connector(16P)	CKS2064
	racket	BMZ20P030FMC	53 Washer	YE20FUC
10 Sc		CNC4687	54 Arm	CNV2884
10 30	crew	BMZ20P040FNI	55 Lever Unit	CXA5093
11 Fr		CNC4686	56 Arm	
12 Sc	rew	JFZ20P018FNI	56 Arm	CNV2885
13 Sp	oring	CBL1131	57 Motor(Spindle)	CXM1058
14 Br	acket	CNC3830	oo oabboit Mileel	CNV2859
15 Cla	amper	CNV2864	59 Screw 60 ·····	HBA-258
			00 11111	•
	m Unit	CXA5090	61 Spring	CDU1414
17 Sp		CBH1415	62 Spring	CBH1414 CBH1424
18 Wa		CBF1039	63	CBH 1424
19 Sp		CBH1418	64 Spring	CDUITAGO
20 Sp	ring	CBH1419	65 Spring	CBH1410 CBL1129
21 Arr	m Unit	CXA5091	-	0521120
22 Arr		CNV2876	66 Screw	JFZ20P025FMC
23 Wa		CBF1038	67 Belt	CNT1047
24 Sh	eet	CNM3582	68 Bracket	CNC3832
25 Ge			69 Holder	CNV2878
	u.	CNV2875	70 Spring	CBH1413
26 Sp	ring	CBH1423	71 Cover	Chi) (0000
27 Arr		CXA5383	72 Holder	CNV2889
28 Pho	oto-transistor	PT4800	73 Chassis Unit	CNV3023
29 Spr		CBH1449	74 Lever	CXA4258
3 0 P.C.	Board	CNP3125	75 Lever	CNV2874
24.0			75 Level	CNC3824
31 Spr 32 Leve		CBH1420	76 Gear	CNV2871
33 Roll	er lor	CNC3828	77 Arm	CNC3833
34 Scre		CLA1936	78 Gear	CNV2872
35 Spri		JFZ20P018FNI	79 Gear	CNV2883
35 Spii	ing	CBL1130	80 Gear	CNV2873
36 Arm		CXA6176	81 Gear	
37 She		CNM3873	82 Gear	CNV2870
38 Hold		CNV3276		CNV2869
39 Was	her	HBF-132	83 Bracket Unit 84 Shaft	CXA4261
40 Spri	ng	CBH1412	85 Motor Unit(Carriage)	CLA2027
41 Rolle	ar	Oh II 40 C = -		CXA4649
42 Shor		CNV2225	86 Holder	CNV2888
43 Was		CBL1010	87 Screw Unit	CXA5384
44 Arm		YE15FUC	88 Screw	CBA1082
45 Sprin		CNC3819	89 Washer	CBF1054
An obili	ıy	CBH1421	90 Gear	CNV2892

DEH-P705,P65,P605,P703,P705RDS

Mark No.	Description	Part No.	Mark No.	Description	Part No.
91	Gear	CNV2868	106	Motor Unit(Loading)	CXA4267
92	Bracket Unit	CXA5078		Connector	CKS2063
93	••••		108	Connector	CKS2149
94	Screw	PMS26P040FMC	* 109	Connector	CKS2121
95	Rack	CNV3268	110	Control Unit	CWX1693
96	Spring	CBH1508	111	Weight	CNC5112
97	Bracket	CNC4436	112	Spring	CBH1458
98	Screw	JFZ17P035FNI	113	Spring	CBH1457
99	Holder Unit	CXA5246	114	Spacer	CNM3315
100	PU Unit	CGY1026	115	CD Mechanism Unit	CXA6196
101	••••		116-118	••••	
102	Spring	CBH1422	119	Screw	CBA1230
103	Holder	CNC4306	120	••••	
104	Screw	JGZ20P070FNI	121	Screw	PMS20P025FMC
105	****				





Service Manual

MULTI-CD CONTROL HIGH POWER CD PLAYER WITH FM/AM TUNER

DEH-P65 oc DEH-P605 oc DEH-P703 es

MULTI-CD CONTROL HIGH POWER CD PLAYER WITH RDS TUNER

DEH-P705RDS

EW,XIB/EW

K-FFK.DEC. 1993 Printed in Japan

CHAPTER 2

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1. PACKING METHOD

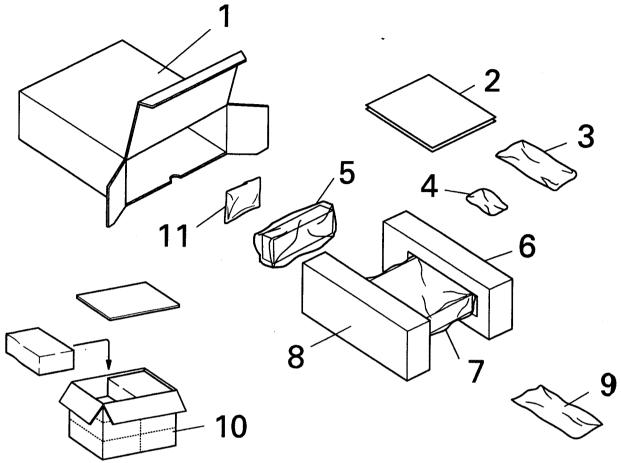


Fig.1

● Parts List(DEH-P705RDS/EW)

Mark	No.	Description	Part No.	Mark	No.	Description	Part No.
	1	Carton	CHG2377		7	Cover	CEG1092
	2-1	Owner's Manual	CRD1682		8	Protector	CHP1602
	2-2	Owner's Manual	CRD1683		9	Accessory Assy	CEA1917
	2-3	Installation Manual	CRD1684		9-1	Screw	CBA1284
*	2-4	Card	CRY-062		9-2	Handle(X2)	CNC4947
*	2-5	Passport	CRY1013		9-3	Bush	CNV1009
	2-6	Polyethylene Bag	CEG1116	*	9-4	Polyethylene Bag	E36-615
	3	Remote Control Assy	CXA5961		10	Contain Box	CHL2377
	4	Accessory Assy	CEA1473		11	Cord Assy	CDE4091
	4-1	Battery	CEX1006			,	002.00
	4-2	Fastener(Rough)	CNM3629				
	4-3	Fastener(Soft)	CNM3630				
*		Polyethylene Bag	CEG-127				
	5	Case	CNS2269				
	6	Protector	CHP1603				

● The DEH-P705RDS/X1B/EW Parts List enumerates the parts which differ from those for the DEH-P705RDS/EW only. The parts other than those enumerated in the DEH-P705RDS/X1B/EW Parts List are identical with those in the DEH-P705RDS/EW parts List, to which you are requested to refer, accordingly. The DEH-P705RDS/EW parts List is given on page 2-2.

			P705RDS/EW -	P705RDS/X1B/EW
Mark	No.	Description	Part No.	Part No.
*	2-4	Card	CRY-062	CRY-063
*	2-5	Passport	CRY1013	CRY1014
	2-6	Polyethylene Bag	CEG1116	E36-618
	4	Accessory Assy	CEA1473	CEA1489
	4-2	<u>.</u>	CNM3629	CNM1841
	4-3	Fastener(Soft)	CNM3630	CNM1842
	7	Cover	CEG1092	UEG-001 .
	10	Contain Box	CHL2377	UHD-002

● Parts List(DEH-P705/UC)

Mark	No.	Description	Part No.	Mark No.	Description	Part No.
	1	Carton	CHG2378	9-2	Screw Assy	CEA1924
	2-1	Owner's Manual	CRD1685	9-2-1	Screw	CBA-102
*		Card	ARY1048	9-2-2	Screw	CBA1284
		Remote Control Assy	CXA5961	9-2-3	Screw(X4)	CRZ50P090FMC
		Accessory Assy	CEA1473	9-2-4	Screw(X4)	TRZ50P080FMC
	4-1	Battery	CEX1006	9-2-5	Nut(X2)	NF50FMC
		Fastener(Rough)	CNM3629	* 9-2-6	Polyethylene Bag	CEG-127
		Fastener(Soft)	CNM3630	9-3	Handle(X2)	CNC4947
*		Polyethylene Bag	CEG-127	9-4	Strap	CNF-111
		Case	CNS2269	9-5	Bush	CNV1009
	6	Protector	CHP1603	* 9-6	Polyethylene Bag	CEG-158
		Cover	CEG1092	10	Contain Box	CHL2378
	8		CHP1602	11	CordAssy	CDE4091
	_	Accessory Assy	CEA1918		·	
		Spring	CBH-865			

DEH-P705,P65,P605,P703,P705RDS

■ The DEH-P703/ES,DEH-P605/UC and DEH-P65/UC Parts Lists enumerate the parts which differ from those enumerated those enumerated in the DEH-P705/UC Parts List only.

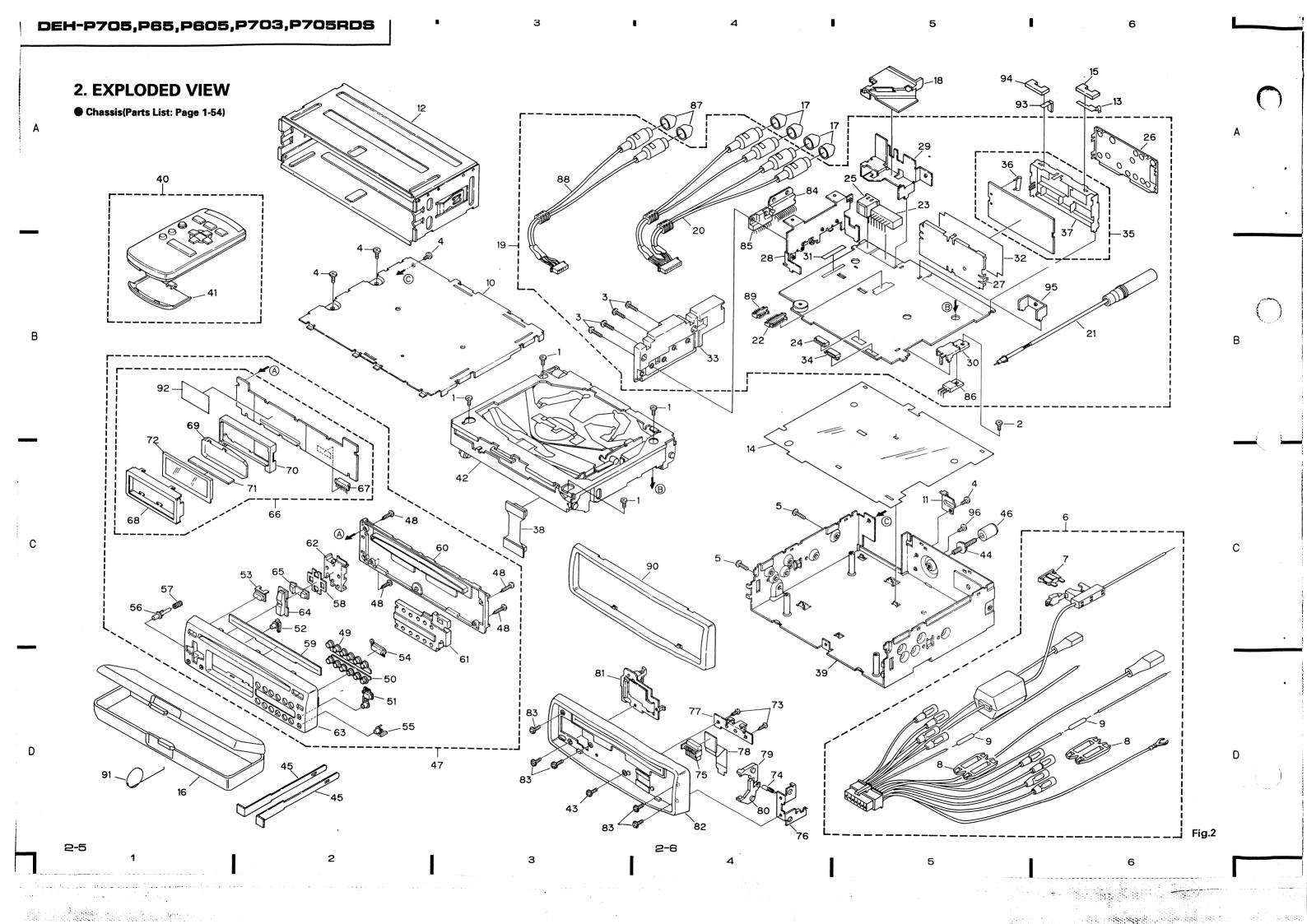
The parts other than those enumerated in the former are identical with those in the latter, to which you are requested to refer, accordingly.

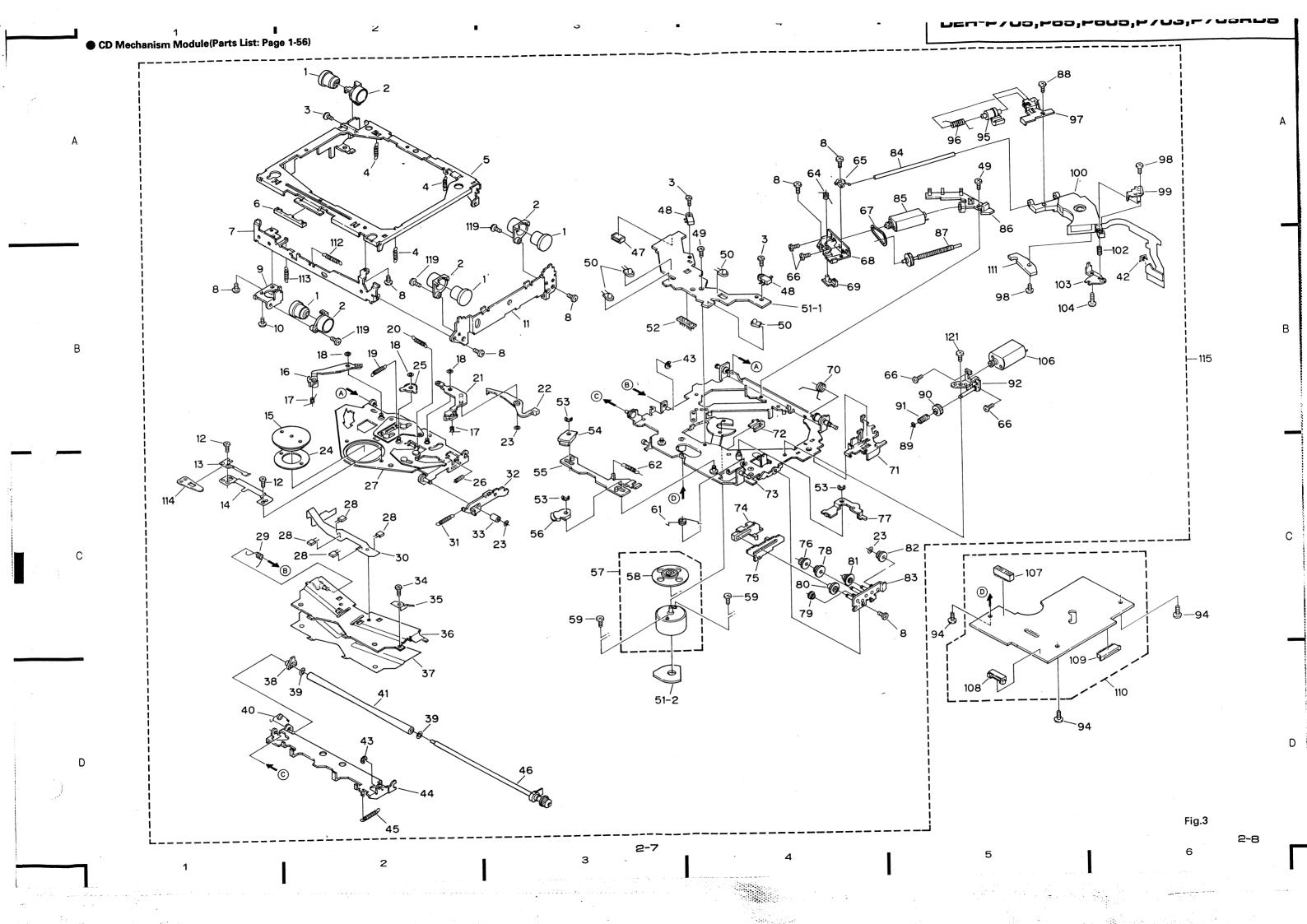
The DEH-P705/UC parts List is given on page 2-3.

			DEH-P705/UC	DEH-P703/ES	DEH-P605/UC	DEH-P65/UC
Mark	No.	Description	Part No.	Part No.	Part No.	Part No.
	1	Carton	CHG2378	CHG2381	CHG2380	CHG2379
	2-1	Owner's Manual	CRD1685	CRD1686	CRD1685	CRD1737
*	2-2	Card	ARY1048	••••	ARY1048	•••••
*	2-3	Warranty Card	••••	•••••	•••••	CRY1070
	3	Remote Control Assy	CXA5961	CXA5961	••••	••••
	4	Accessory Assy	CEA1473	CEA1473	•••••	••••
	4-1	Battery	CEX1006	CEX1006	•••••	••••
	4-2	Fastener(Rough)	CNM3629	CNM3629	•••••	•••••
	4-3	Fastener(Soft)	CNM3630	CNM3630	•••••	•••••
*	4-4	Polyethylene Bag	CEG-127	CEG-127	•••••	•••••
	10	Contain Box	CHL2378	CHL2381	CHL2380	CHL2379

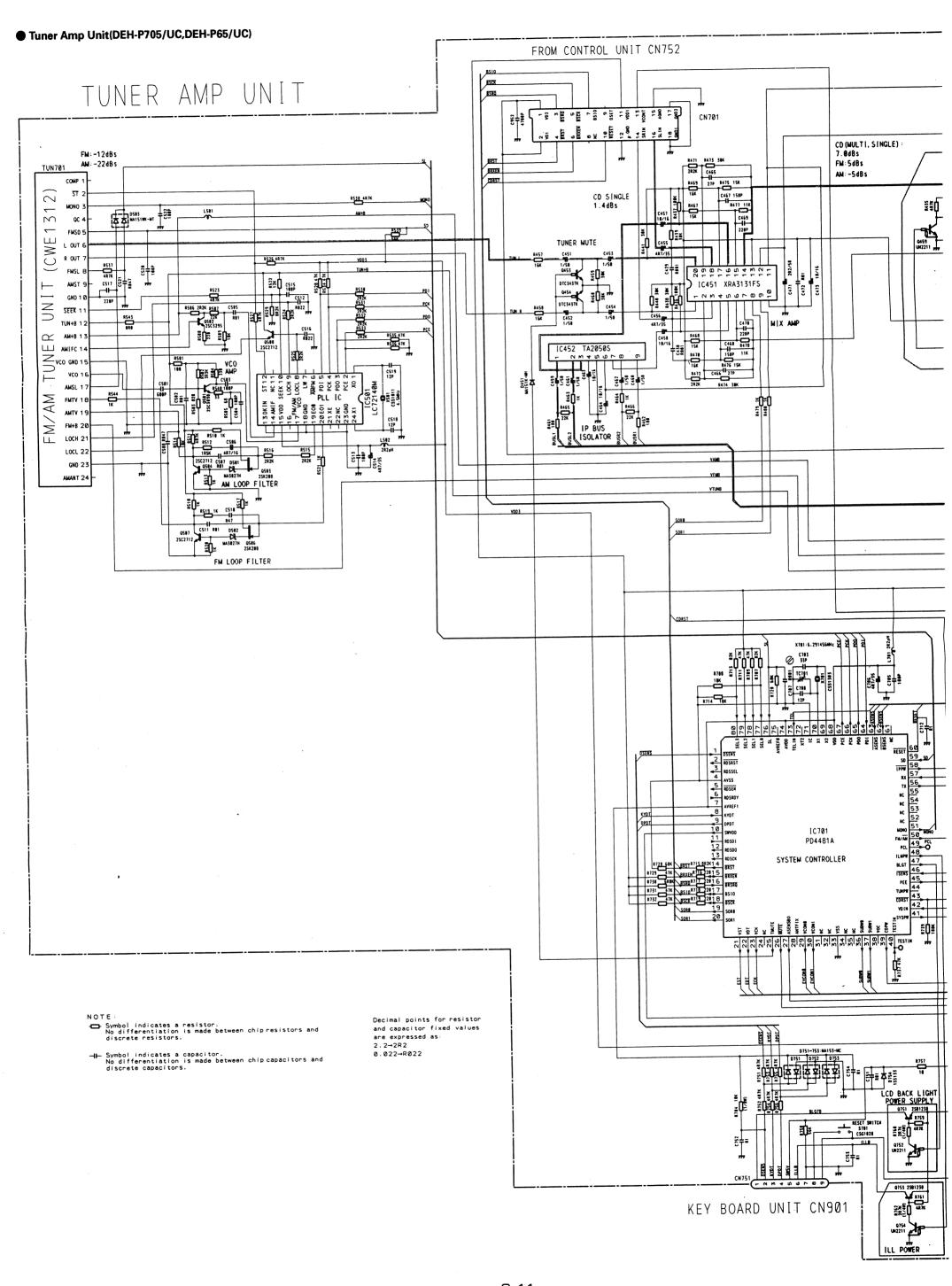
2-1 Owner's Manual

L 1 OWNORD Midnigal		
Model	Part No.	Language
DEH-P705RDS/EW	CRD1682	English,French,Italian,German,Dutch
	CRD1683	Swedish, Norwegian, Finnish, Spanish, Portuguese
DEH-P705/UC,DEH-P605/UC	CRD1685	English,French
DEH-P703/ES	CRD1686	English,French,Spanish,Arabic
DEH-P65/UC	CRD1737	English,French

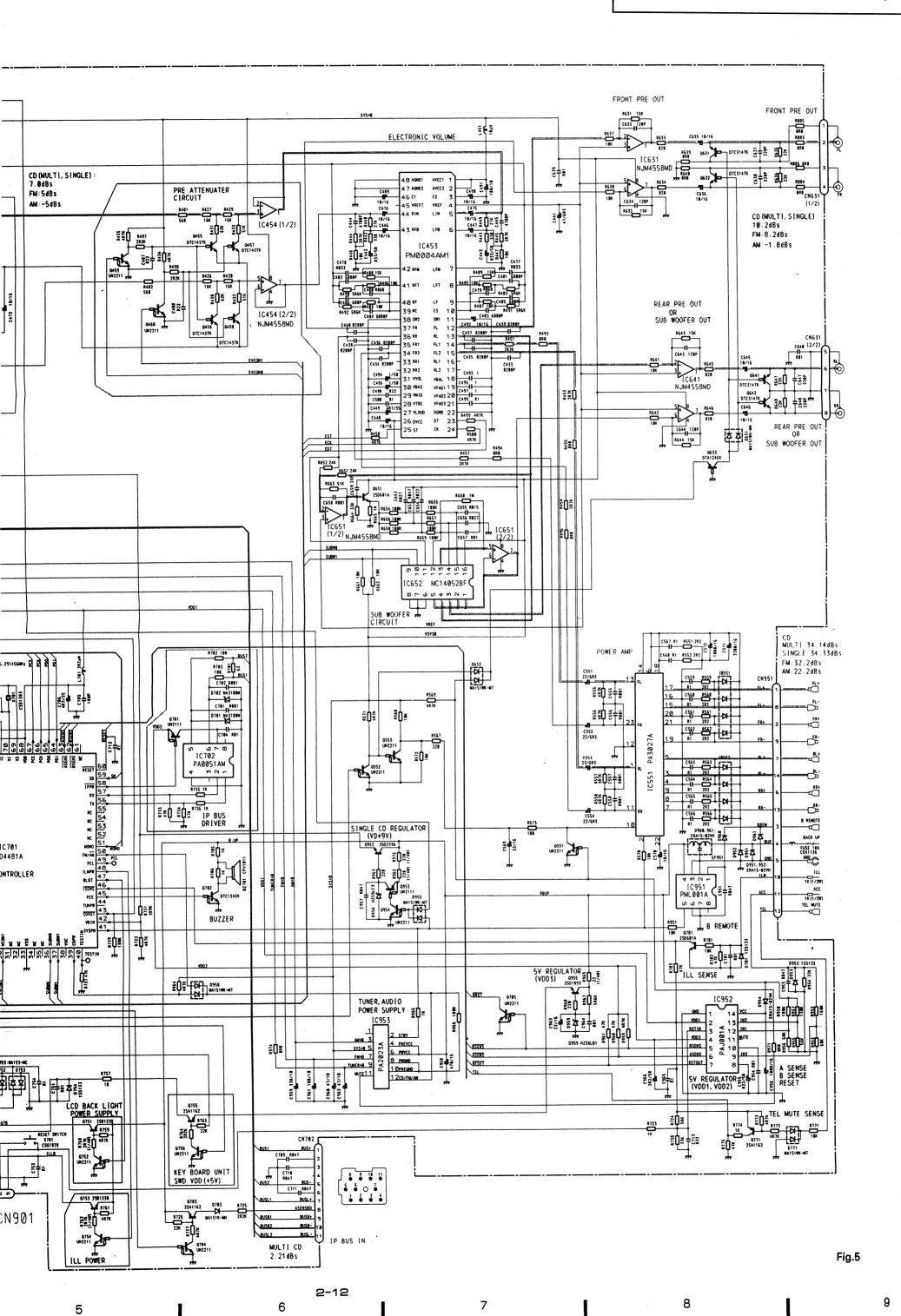




3. CIRCUIT DIAGRAM AND PATTERN 3.1 TUNER AMP UNIT(DEH-P705/UC,DEH-P65/UC) → FM/AM TUNER UNIT Q502 **►**CORD Q508 Q506 Q507 Q504 Q503 IC452 IC501 Q781 Q631 IC951 Q632 FRONT PREOUT Q771 REAR PREOUT Q641 Q642 IC551 Q633 Q453 Q454 IB551, 552 IC631 IC651 IC451 Q651 Q456 IC453 Q458 IC652 IC454 IC641 Q455 Q703 Q457 Q704 Q459 Q460 IC953 Q955 Q551 Q705 Q552 Q952 IC952 Q553 Q755 IC701 Q953 Q756 Q954 Q754 Q753 IC702 Q702 TC701 Q751 Q701 Q752 CONTROL UNIT CN752 ← Fig.4 ► KEY BOARD UNIT CN901 2-9

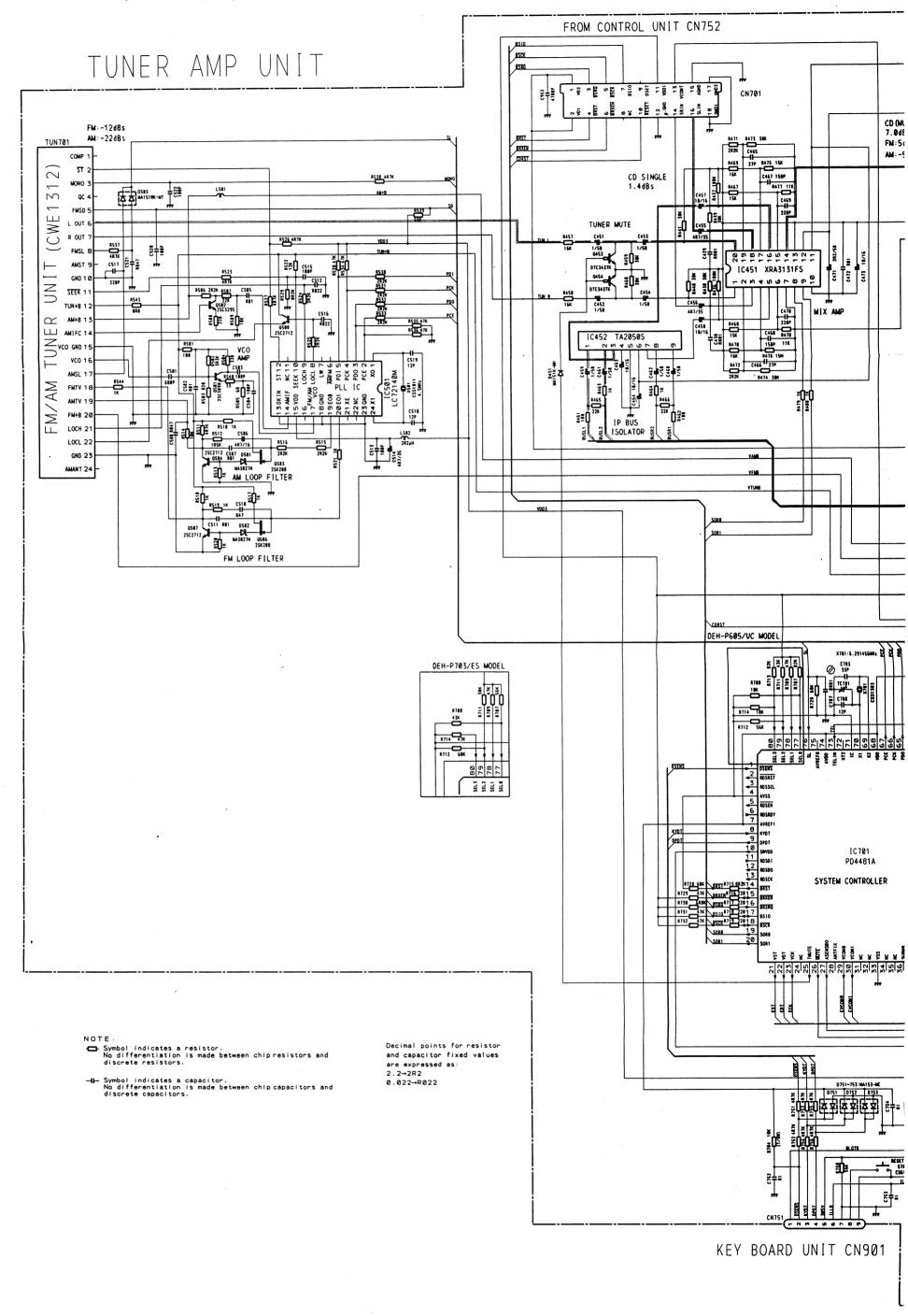


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3.2 TUNER AMP UNIT(DEH-P703/ES,DEH-P605/UC)



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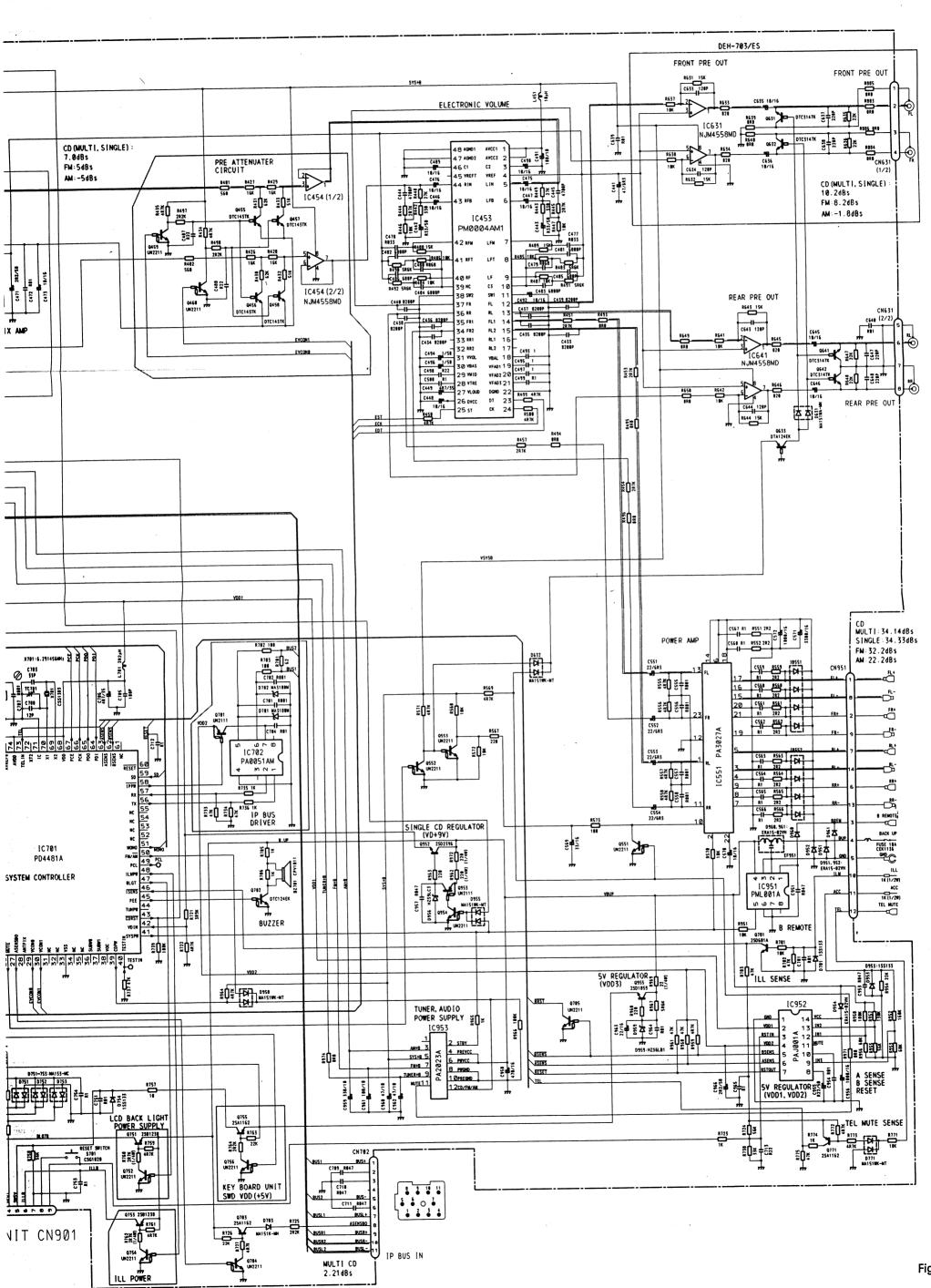


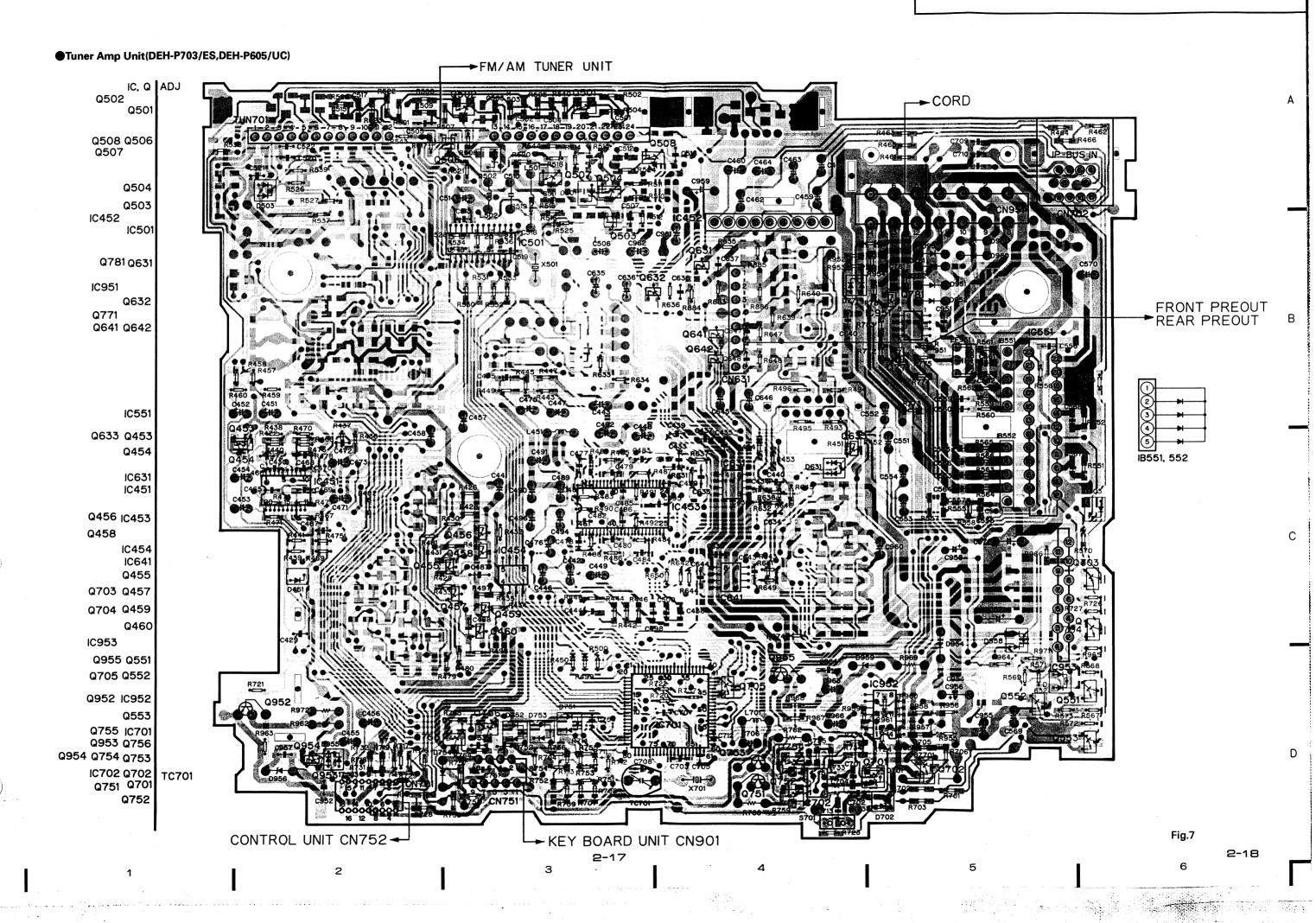
Fig.6

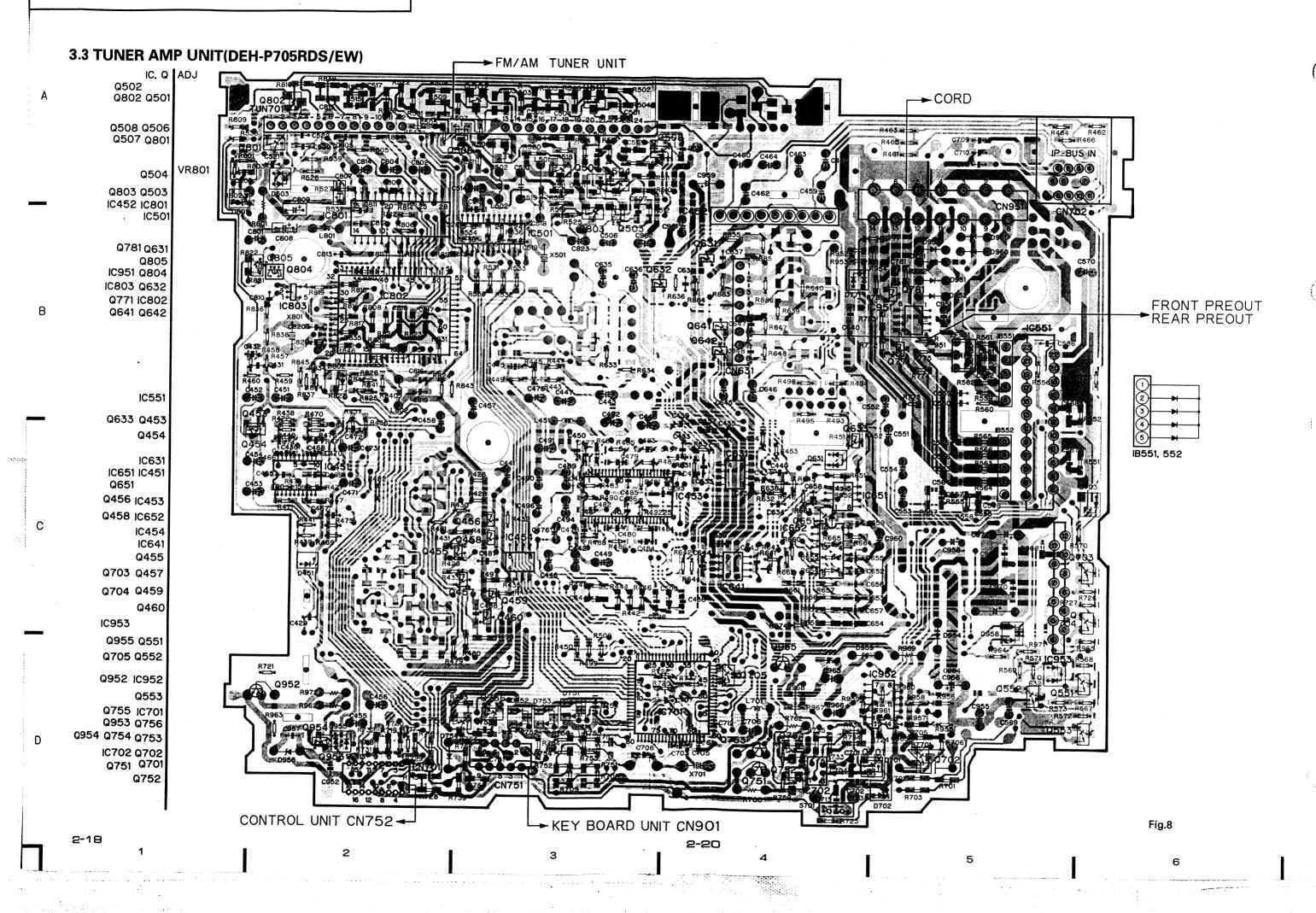
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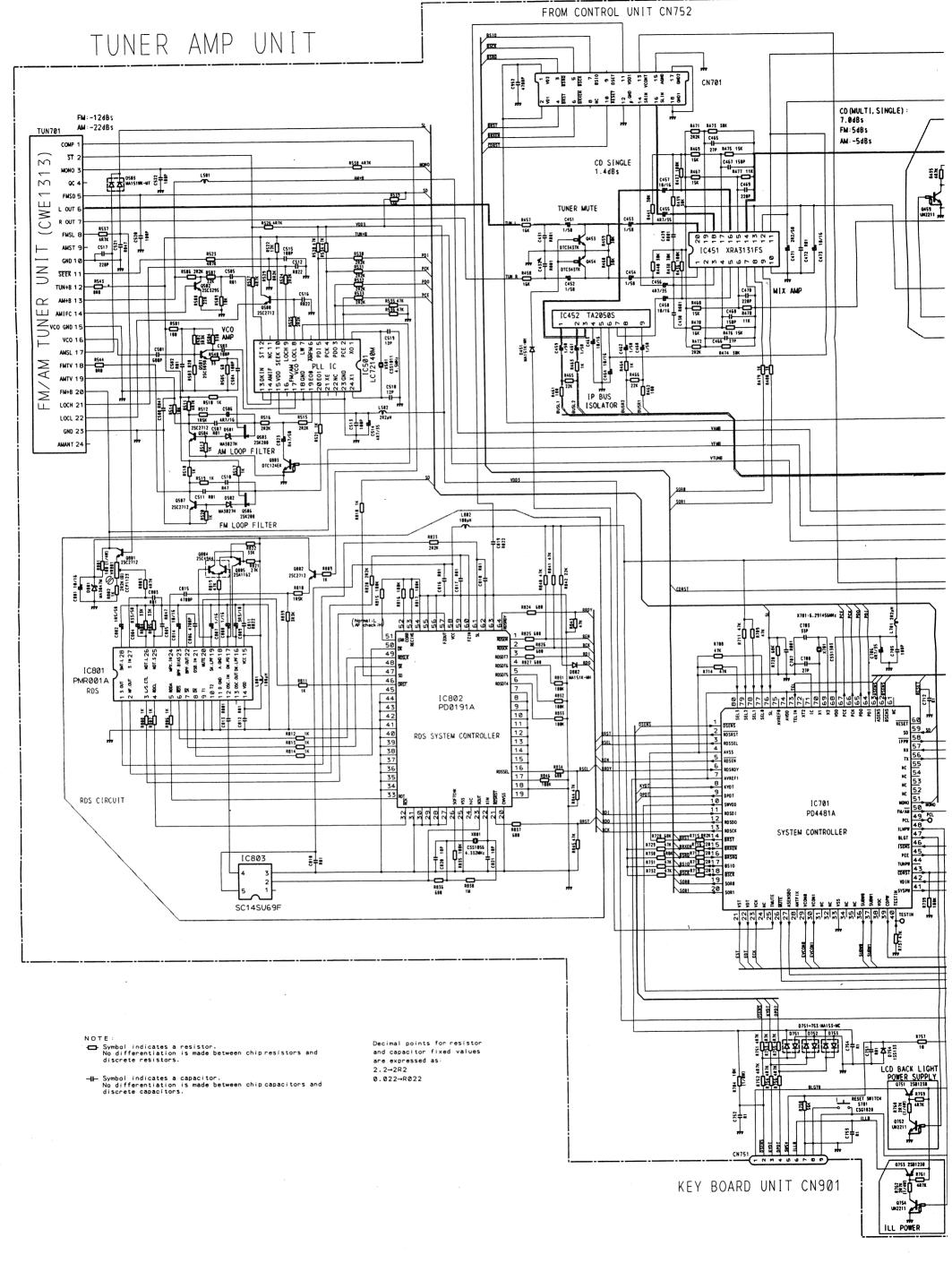
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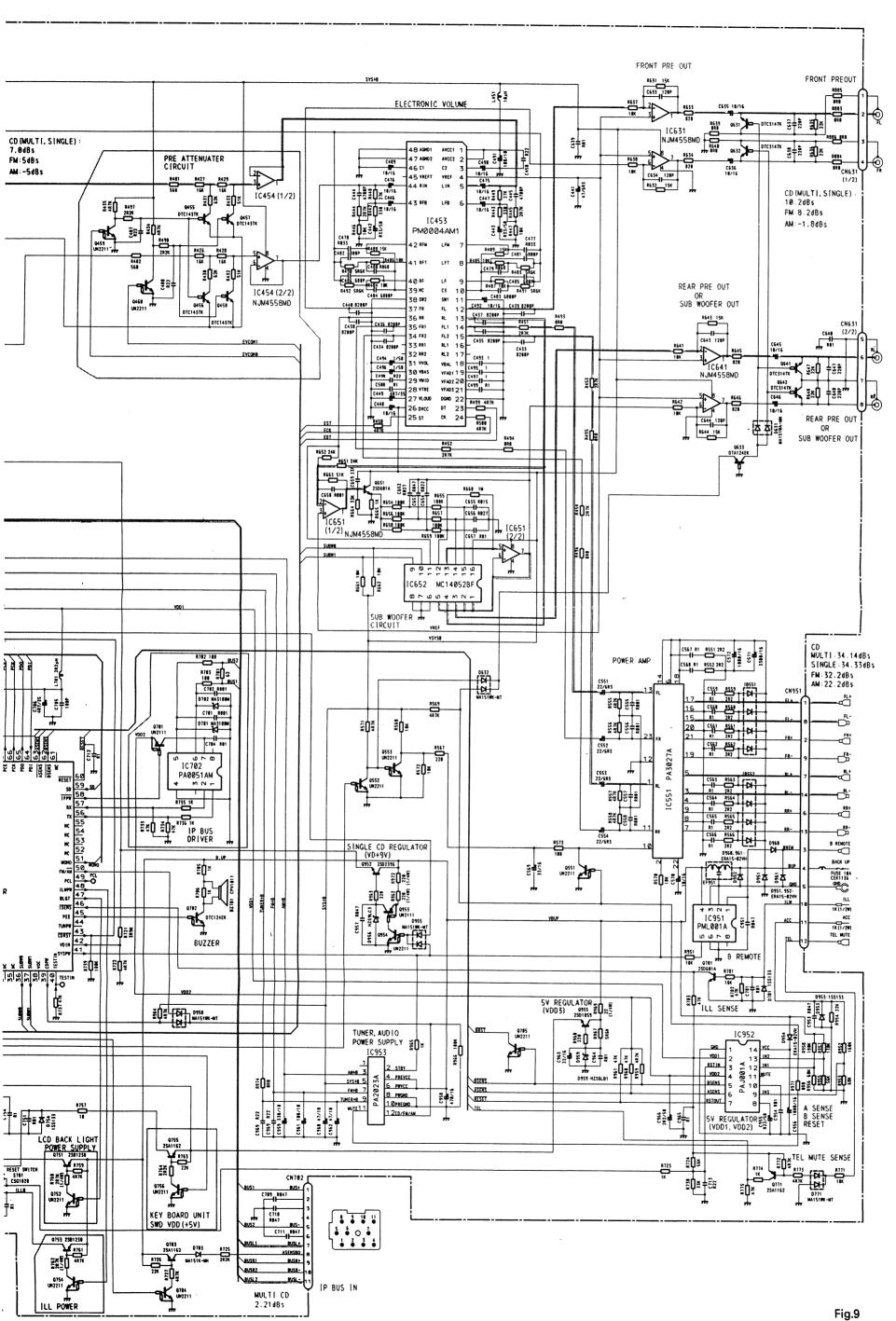




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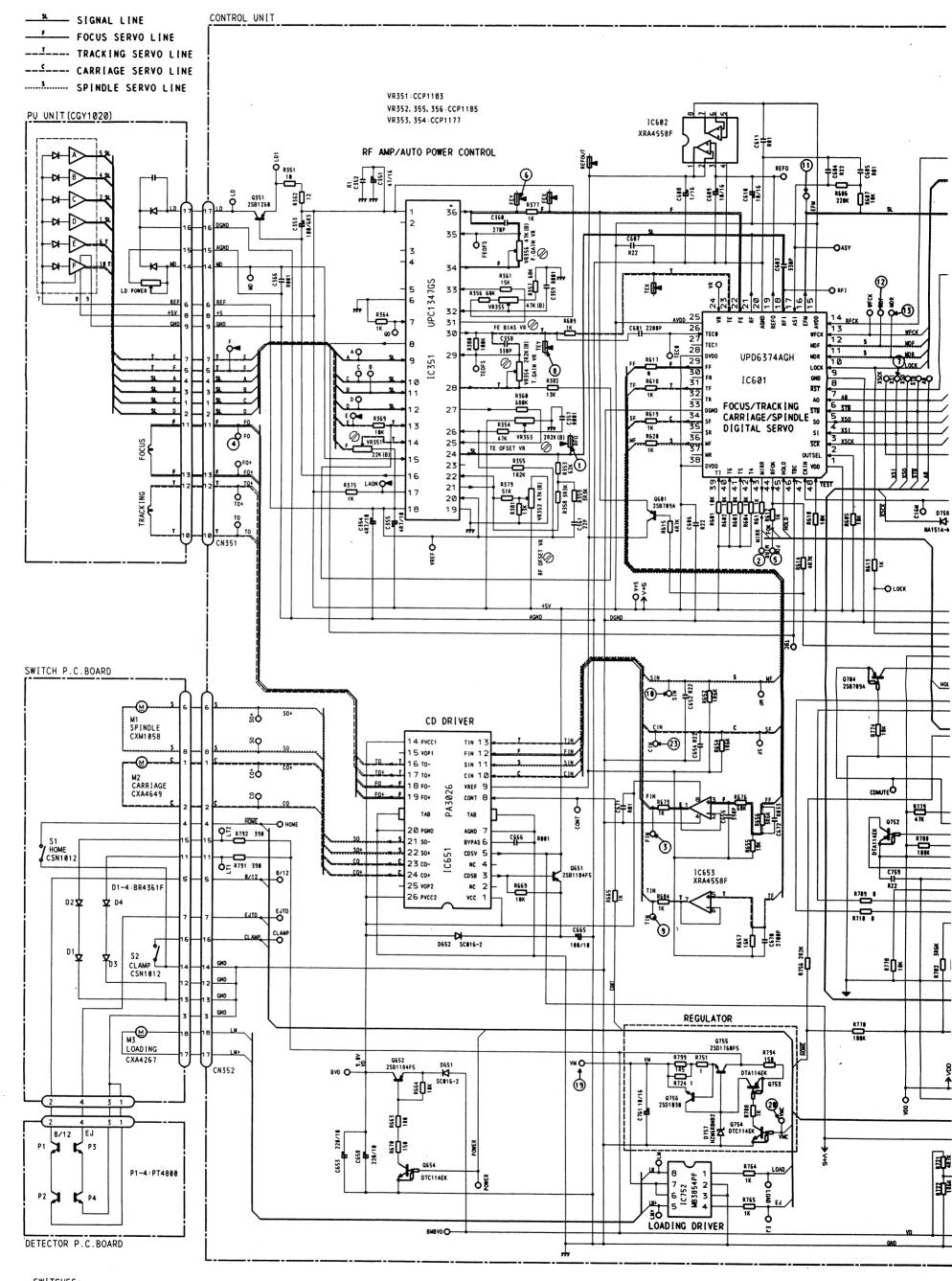
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3.4 CD MECHANISM MODULE



SWITCHES:
MISCRLLANEOUS
S1:HOME SWITCH....ON-OFF

S2:CLAMP SWITCH·······ON-<u>OFF</u>

The underlined indicates the switch position.

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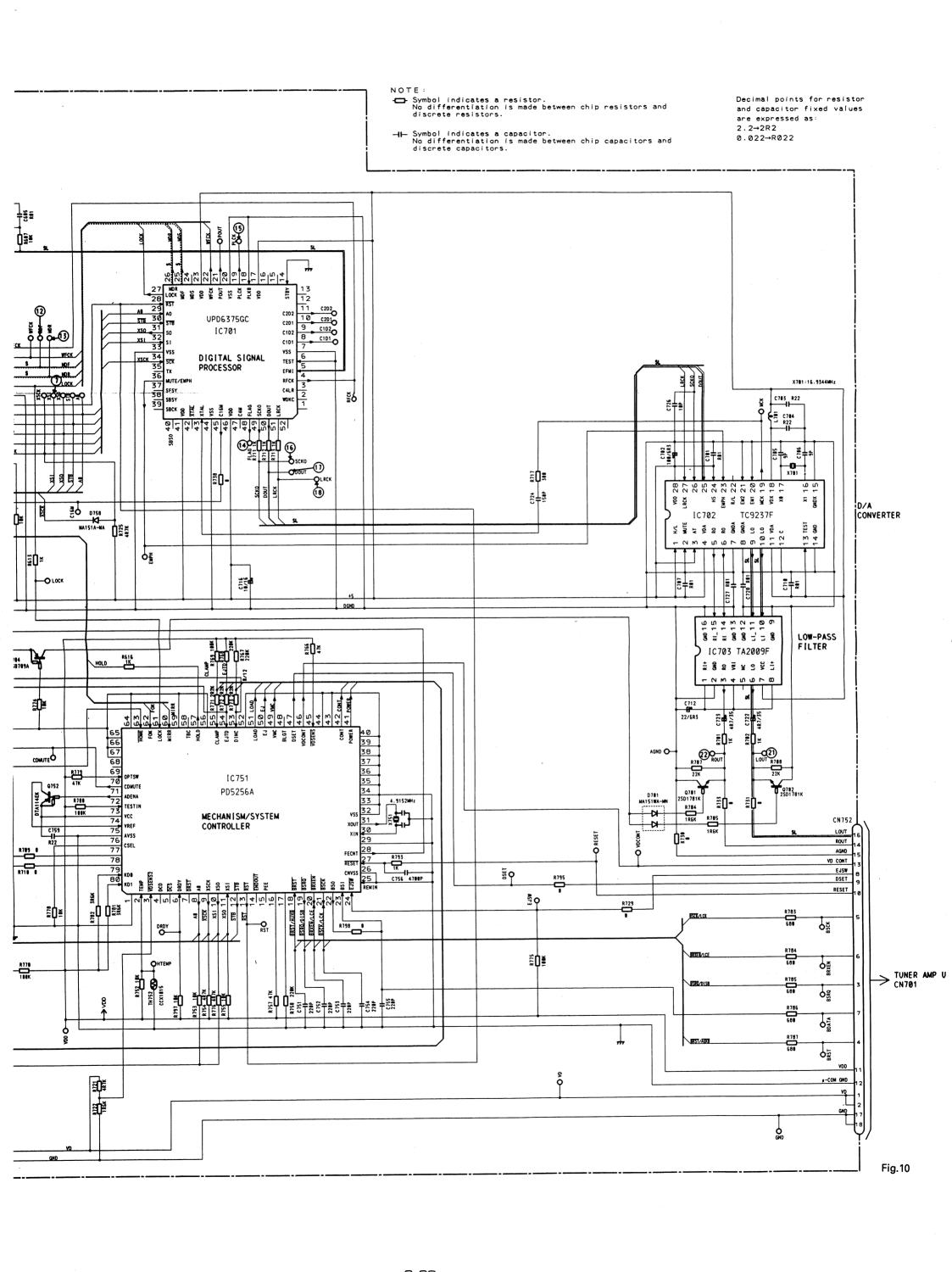
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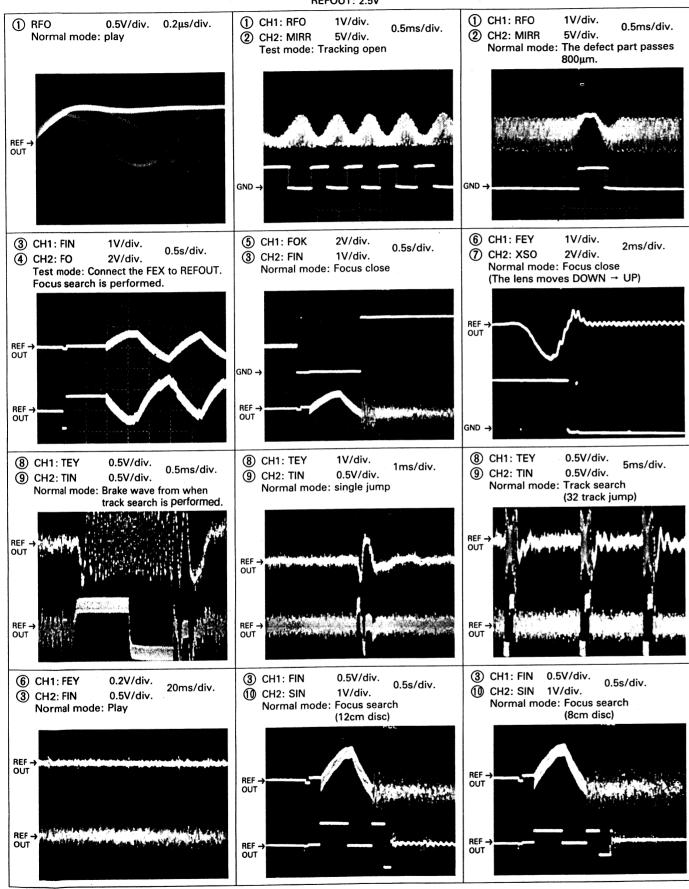
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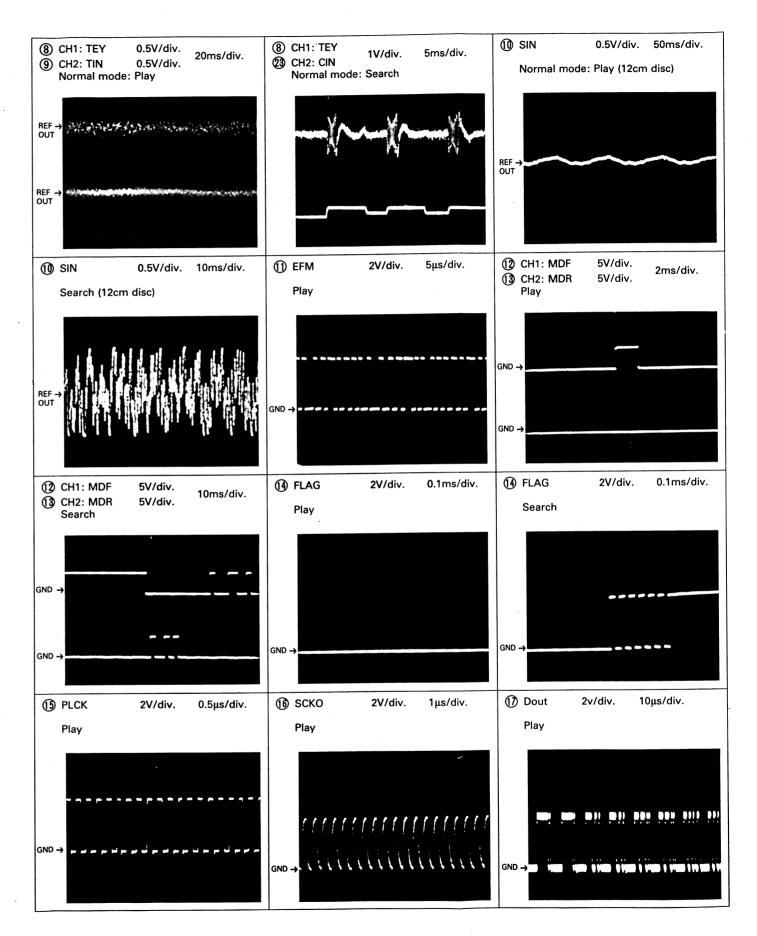
2-26 5 6 7 8 9

•Wave Forms

Note: 1. The encircled numbers denote measuring pointes in the circuit diagram.

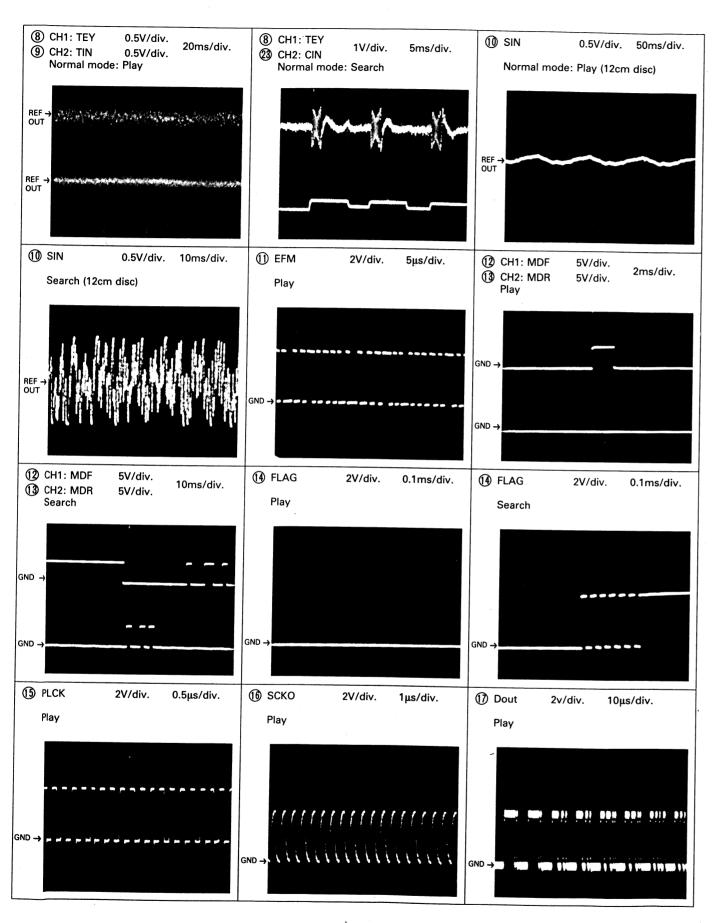
2. Reference voltage REFOUT: 2.5V

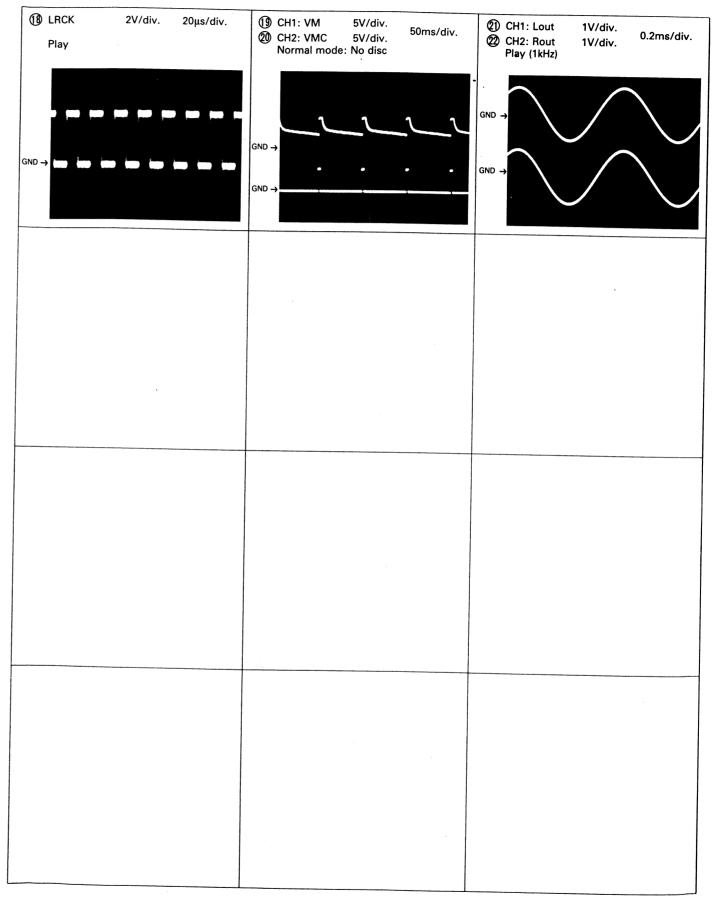




(18) LRCK

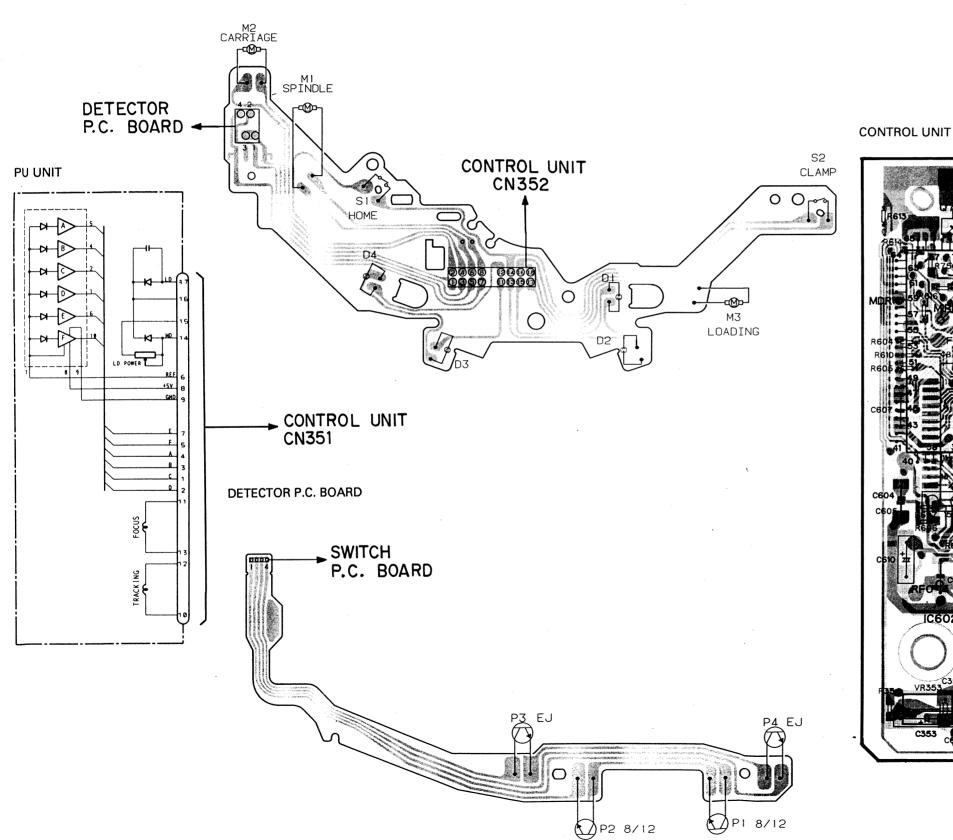
Play

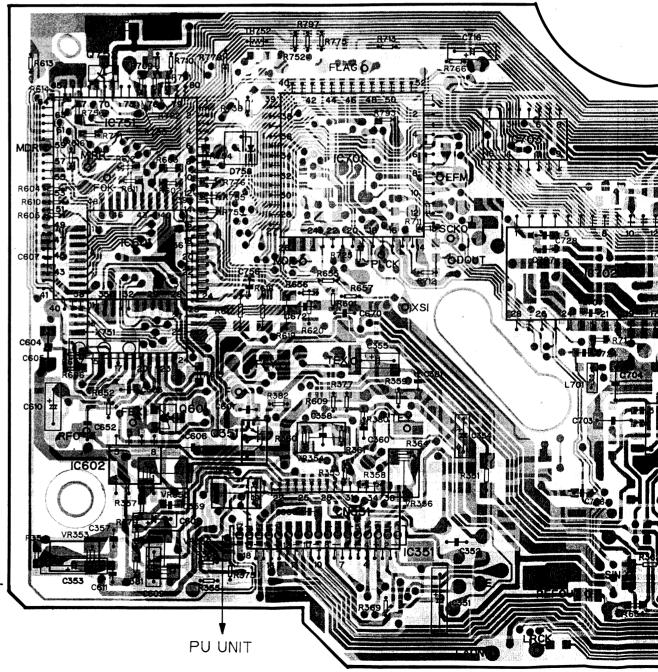




● CD Mechanism Module

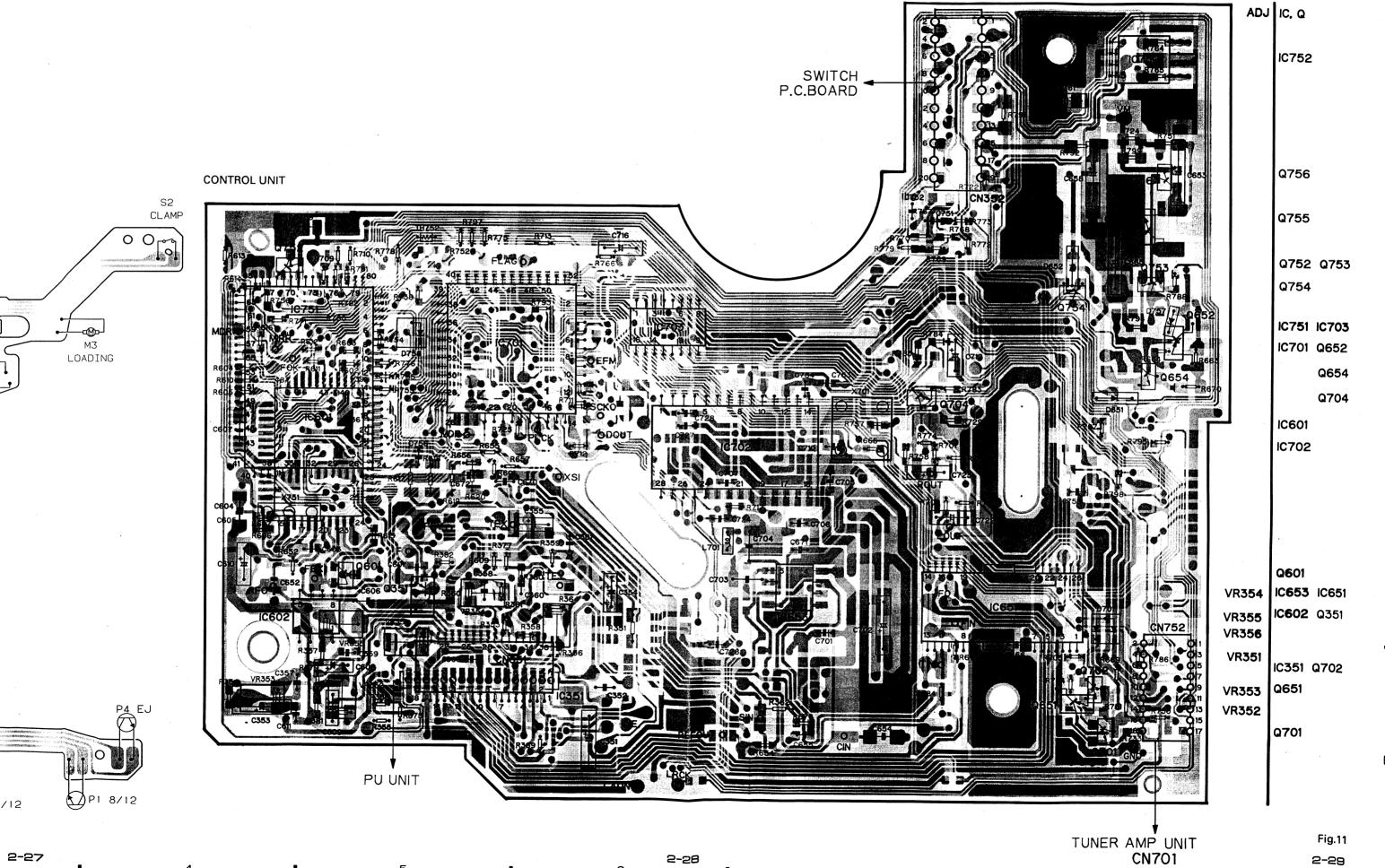
SWITCH P.C. BOARD





2-28

DEH-P705,P65,P605,P703,P705RD8



3.6 FM/AM TUNER UNIT(UC ,ES MODEL)

OTE:

Symbol indicates a resistor.

No differentiation is made between chipresistors and discrete resistors.

Decimal points for resistor and capacitor fixed values are expressed as:

2.2→2R2

-II- Symbol indicates a capacitor. No differentiation is made between chip capacitors and discrete capacitors.

--- AM SIGNAL FM FRONT END R218 33K C236 R822 R20 22K FM MPX AM DET. 13 C[C107 C4 17 D2 KX1417 39 8 6 8 102 PA2022A IC1 PA2021A FM IF

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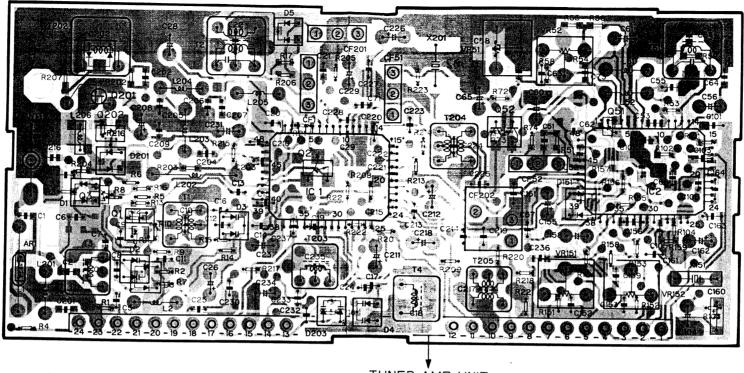
2-3

Fig.1

UNIT

● FM/AM Tuner Unit(UC,ES MODEL)





TUNER AMP UNIT

3.7 FM/AM TUNER UNIT(EW MODEL)

IC, Q	Q201 Q3 Q202 Q1			Q2 IC1	Q52	Q53	Q51 IC2		
AĎJ	Т3	T1	T2		T4 T204 T205 VR51	VR52	VR151 VR152	T51	

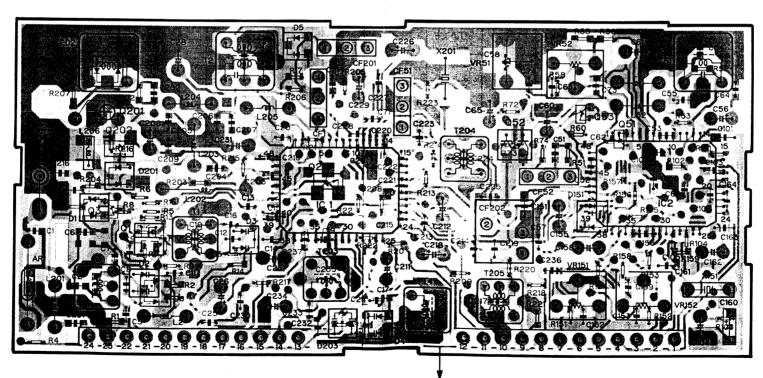


Fig.16

Fig.15

TUNER AMP UNIT

Fig.14

2-40

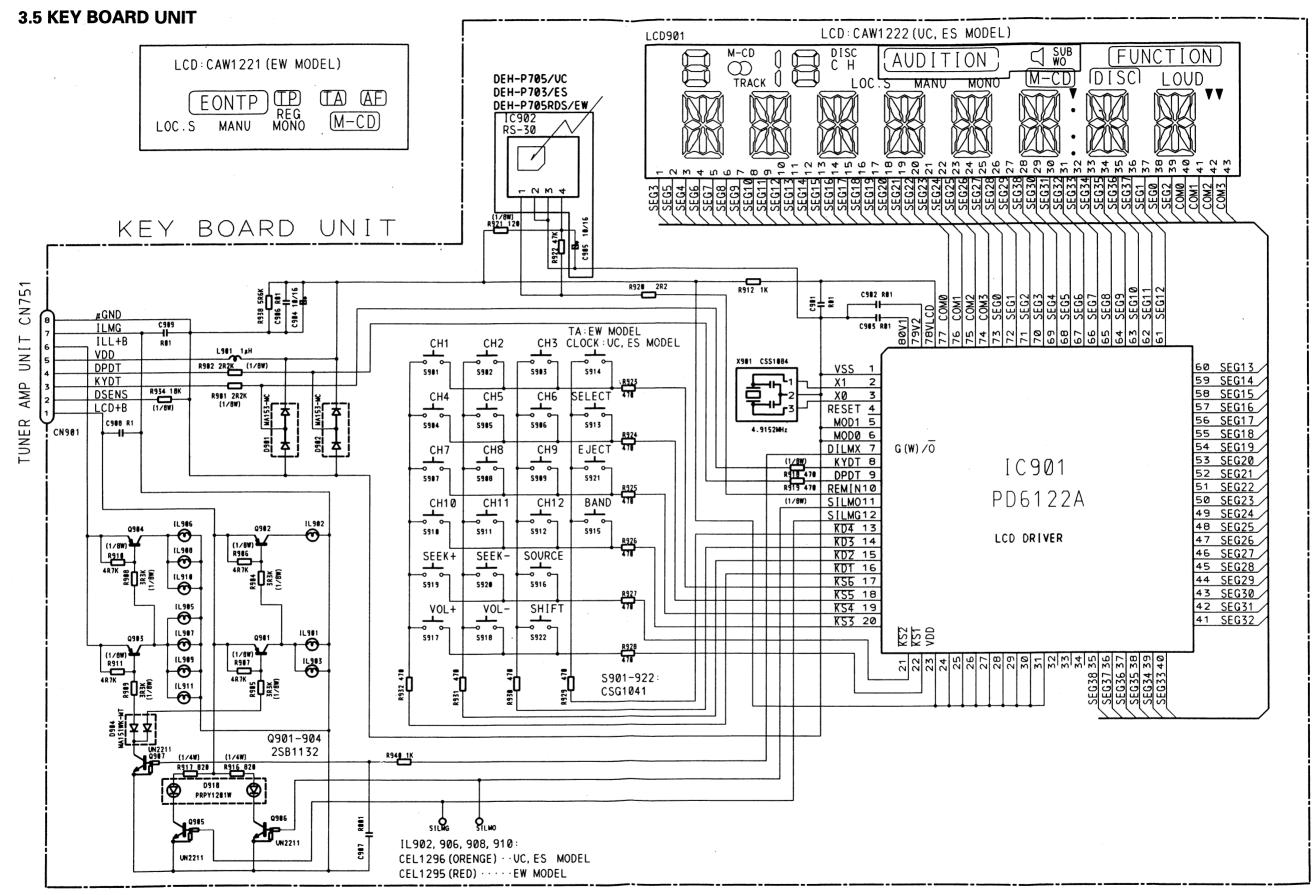


Fig.12

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2-34

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● Key Board Unit

1C, Q Q905 Q907 Q904 Q903 Q901 IC901 Q902 IC902

Fig.12

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3.6 FM/AM TUNER UNIT(UC ,ES MODEL)

NOTE:
Symbol indicates a resistor.
No differentiation is made between chipresistors and discrete resistors.

Decimal points for resistor and capacitor fixed values are expressed as:

→H- Symbol indicates a capacitor. No differentiation is made between chip capacitors and discrete capacitors.
2.2→2R2
0.022→R022

----- FM SIGNAL ---- AM SIGNAL FM FRONT END R28 22K FM MPX AM DET. 28 9 IS 7 7 VCC 24 **υυυυυ υυ4υυ** 39 m h m m 40 ₹855 41 8F AGC IC2 PA2022A R228 18 C219 R1 IC1 R182 BR2K C182 R841 PA2021A AN RF AGC FN 1F 0UT AM RF FM [F

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D

В

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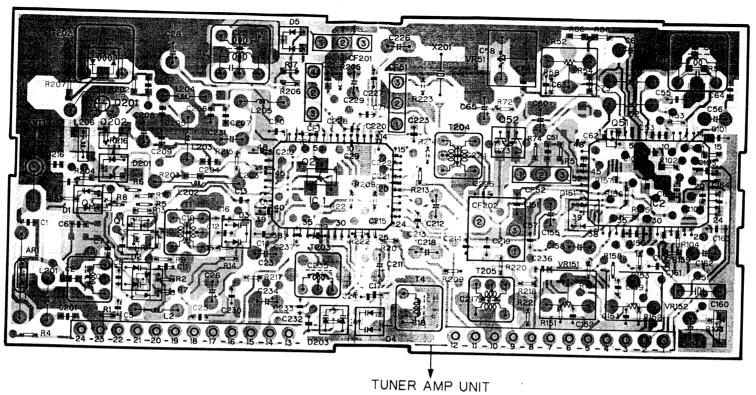
Fig.14

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2-38

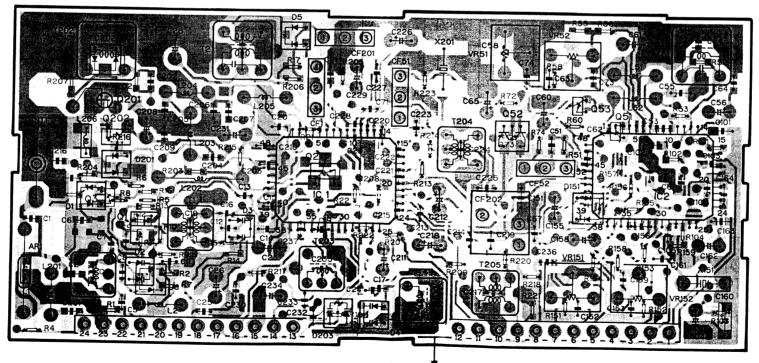
● FM/AM Tuner Unit(UC,ES MODEL)





3.7 FM/AM TUNER UNIT(EW MODEL)

IC, Q	Q201 Q3 Q202 Q1			Q2 IC1	Q52	Q53	Q51	IC2		
ADJ	Т3	T1	T2		T4 T204 T205 VR51	VR52		VR152	T51	



TUNER AMP UNIT

2-40

2-39

Fig. 14

Fig.16

Fig.15

● FM/AM Tuner Unit(EW Model)

NOTE:
Symbol indicates a resistor.
No differentiation is made between chipresistors and discrete resistors. Decimal points for resistor and capacitor fixed values are expressed as: -II- Symbol indicates a capacitor. No differentiation is made between chip capacitors and discrete capacitors.
2.2→2R2
0.022→R022 ------ FM SIGNAL FM FRONT END FM MPX AM DET 39 m m m 40 ₹55 5 41 RFAGC 102 PA2022A PA2021A FM IF Fig.17

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В

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